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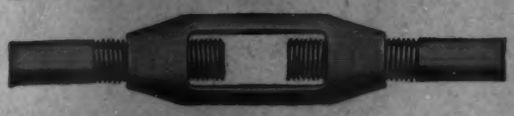
The American Artisan
AND HARDWARE RECORD

Vol. 54. No. 21. CHICAGO, NOVEMBER 23, 1907. $2.00 Per Year.

TURN BUCKLES



A full line of Bolts, Bolt Ends, Rivets, Lag Screw, Nuts, Washers and Carriage Hardware.

COLUMBUS BOLT WORKS, Columbus, O.

IN THE FRONT RANK FOR 25 YEARS
"AMERICAN SEAL"
ELASTIC OIL ROOFING CEMENT
STOVE PUTTY and ASBESTOS
FURNACE CEMENT
and the superior quality of these goods is still universally recognized.

THE WM. CONNORS
PAINT MFG. COMPANY
MAKERS
TROY, N. Y.

Western Agent
FRIEDLEY-VOSHARDT CO.
194-204 Mather Street Chicago, Ill.

Southwestern Agent
STOCKHOFF SUPPLY COMPANY
107 N. Main St., St. Louis, Mo.

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

WIZARD
ADJUSTABLE HINGE HANGER

Made of best quality Malleable Iron. The two sets of Steel Roller Bearings reduce friction and make an exceptionally easy running hanger. Lateral and vertical adjustment. No special track required. *Ask your jobber or write us.*
SAFETY DOOR HANGER CO.
Manufacturers
Ashland, Ohio. Hamilton, Ont., Can

"NEVER-BREAK"
TRADE MARK

Catalog Free

"NEVER-BREAK"
Steel Spiders, Griddles & Kettles
WILL NOT
Scale Off like cheap enamel.
WILL NOT
Scorch or Burn like light fry-pans and skillets.
WILL NOT
Absorb Grease or Flavors like cast iron.
THE AVERY STAMPING CO.
CLEVELAND, OHIO
Sole Manufacturers
"NEVER-BREAK" Goods.

DELTA FILES DELTA FILES
FILES OF QUALITY
DELTA FILES
TRADE MARK DELTA
Lest You Forget—We Say It Yet
DELTA FILES
CARVER FILE CO., - Philadelphia, Pa.
An independent organization not connected with the trust in any form, shape or manner.

CHAIN—Furnace, Damper or Ventilator
"TRIUMPH"

STRONGEST Chain in the World.
ELEVEN times as strong as Jack Chain.
CUTS ARE EXACT SIZE
"BROWN"

"Triumph" or "Brown"
MADE IN EITHER
Steel or Brass.
GET OUR PRICES.
CHEAPEST because they are the BEST
MADE ONLY BY THE BRIDGEPORT CHAIN CO., Bridgeport, Conn.

The Gas Heater Sensation of 1906

"Fort Pitt" Gas Heaters

A strictly high grade "Pony" line. Built like the Heaters for which you have been paying $10 to $15. The only difference is they are smaller and their price is not quite half as much.

No. 19 Fort Pitt

ASK FOR

Special Net Prices!

3 Styles

CAST IRON FIRE BOXES
FINE NICKEL
FLUE CONNECTIONS
LARGE CIRCULATING FLUES

No. 12 Fort Pitt

THEY DRAW AIR FROM THE FLOOR
Just what People have been looking for. You will find them a Low Priced Hard Hitting Line

Stove & Range Co., of Pittsburgh
Pittsburgh, Pa.

The Value of Good Talking Points

The man who buys a heating apparatus today is different from the purchaser of ten or twenty years ago. The buyer today knows something about different furnaces, from his own experience, or the experience of others.

And if you have the agency for the KELSEY Warm Air Generator, you'll be surprised how quickly the KELSEY appeals to the average buyer.

He quickly sees the KELSEY has much more heating surface than the ordinary furnace.

Now, take an intending buyer over the KELSEY construction from step to step—point out the exclusive KELSEY advantages—and you'll be surprised how clearly the points appeal to the average buyer, and what an impression they make upon him.

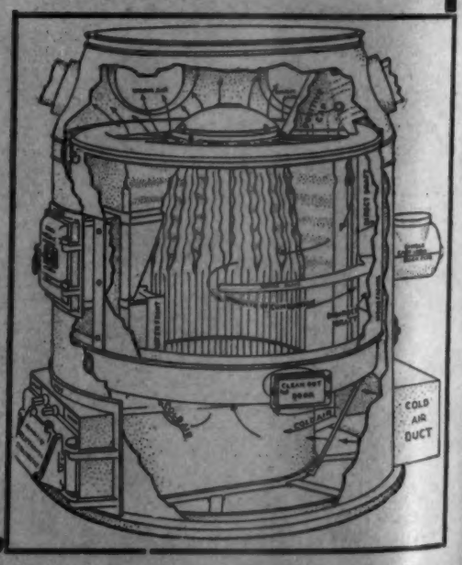
That's why it's easy to interest a buyer in the KELSEY. Then, explain there are over 30,000 KELSEYS in use in small cottages, in churches, in palatial city residences and country homes, and he will realize the KELSEY "makes good" or it would not enjoy such popularity.

The KELSEY has more good, strong, convincing talking points than any other heating system—and talking points make sales!

Want the Exclusive Agency for 1908?

Kelsey Heating Company
SYRACUSE, N. Y.

New York: 156 Fifth Ave.
Van Evera & Lewis Mfg. Co.,
104-106 W. Lake St., Chicago.
James Smart Mfg. Co., Brockville, Ont., Sole Makers for Canada.



ARE YOU ENTERED YET

IN

THE AMERICAN ARTISAN

WINDOW DISPLAY

PRIZE RACE?

An attractive window display never fails to aid in convincing the casual observer that a similar condition must prevail in your stock and shelves. A careless, haphazard window display has ever been found to lend an opposite fragrance. Let your entrance into our window display "prize" parade, herald your start onto a long series of special window "trims" in your territory.

A photograph of your window display in the Hardware, Paint or Sporting Goods line will signal your entrance and interest in this great "awake" contest.

You have got an even, if not a better chance than many of your neighboring dealers to secure that

$50.00 $50.00 in Gold for photograph and description of Best Window Display of Hardware.

$25.00 $25.00 in Gold for photograph and description second in excellence.

$15.00 $15.00 in Gold for photograph and description third in excellence.

$10.00 $10.00 in Gold for photograph and description fourth in excellence.

CONTESTANTS—Any hardware dealer, or his assistant or clerk, is eligible to this competition.

TIME—The photographs may be sent by mail or express, charges prepaid, and must reach this office not later than noon, January 1, 1908. Address all photographs to

THE AMERICAN ARTISAN PRIZE COMPETITION

69 DEARBORN STREET, CHICAGO, ILL.

CONDITIONS—Each photograph must be signed by a fictitious name or device, and the same name or device must be put upon a sealed envelope, containing the real name and address of the contestant. This envelope is to be enclosed with the photograph.

AWARD OF PRIZES—The Competition Committee, one of whom will be a practical window trimming man and one a practical hardware man, will pass upon all photographs and descriptions received within the prescribed time and will decide between the contestants.

THE AMERICAN ARTISAN reserves the right to publish all photographs and descriptions of same submitted in this competition.

Large Radiating Surface Important

It is the radiating surface which determines the amount of heat a furnace is going to get out of the fuel used. The size of the fire pot determines the amount of fuel a furnace will burn.

Lennox Torrid Zone

steel furnaces have very large radiating surface nearly doubled in area by the extra indirect radiator through which the hot smoke is made to pass for eight feet of smoke travel. A hanging partition in this radiator causes the smoke to descend within eight inches of the bottom of the radiator before passing up the other side. This is longer smoke travel than any other furnace has and is possible only by reason of the convenient direct and indirect draft change. In Torrid Zone furnaces the indirect draft does not have to be strong enough at all times to permit of opening the fuel door for the direct draft can be had at one pull of a damper rod. Thus when fuel door is closed and damper is turned for indirect draft more of the hot gases can be held back from escaping up the chimney and used as fuel. This makes Torrid Zone furnaces fuel savers. It is only one of the many great selling points of this furnace.

WRITE FOR 40-PAGE CATALOG

Lennox Furnace Co.

Marshalltown, Iowa

THE BOYNTON FURNACE CO.
BOYNTON'S PATENTED SQUARE POT
NEW YORK — CHICAGO

ONE HUNDRED STYLES AND SIZES

BOYNTON'S

Warm Air Furnaces

BOYNTON Furnaces are made of cast iron or steel plate or combination of both—portable or brick set—for hard or soft coal, wood, lignite or any fuel, and are adapted for any climate.

The New Patent Square Firepot found in all BOYNTON'S LATEST PATTERN FURNACES.

BOYNTON'S Crusader Furnace.

Their General Excellence has made for them a "world-wide" reputation as being the very best goods ever put on the market.

The most durable, powerful and reliable goods made. Quickest to Sell—Easiest to Operate—BECAUSE they are Always FIRST with Every Real Improvement.

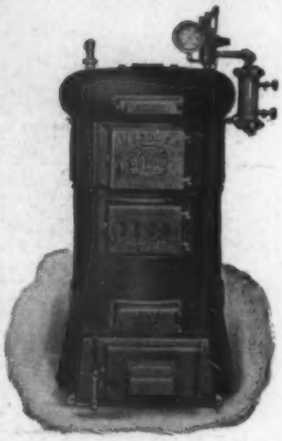
SEND FOR CATALOG

THE BOYNTON FURNACE CO., 147-149 Lake St., CHICAGO 207-209 Water St., NEW YORK

BE HONEST WITH YOURSELF

Can you, in justice to yourself, afford to install for your customer a Heater of inferior quality, when he expects the best, and would gladly pay for the best if shown that such is what he would get.

If you install for your customers the



"MUELLER"

Furnace or Boiler, they will get exactly what they expect — and you will have a satisfied customer to whom you can refer prospective purchasers—a satisfied customer will advertise your business more than any other method, and it costs you nothing.

Better think the matter over, and then write for the agency of the complete line of

MUELLER FURNACES and BOILERS

L. J. MUELLER FURNACE COMPANY

ESTABLISHED 1857

191 Reed Street MILWAUKEE, WIS.

Foster's Prize

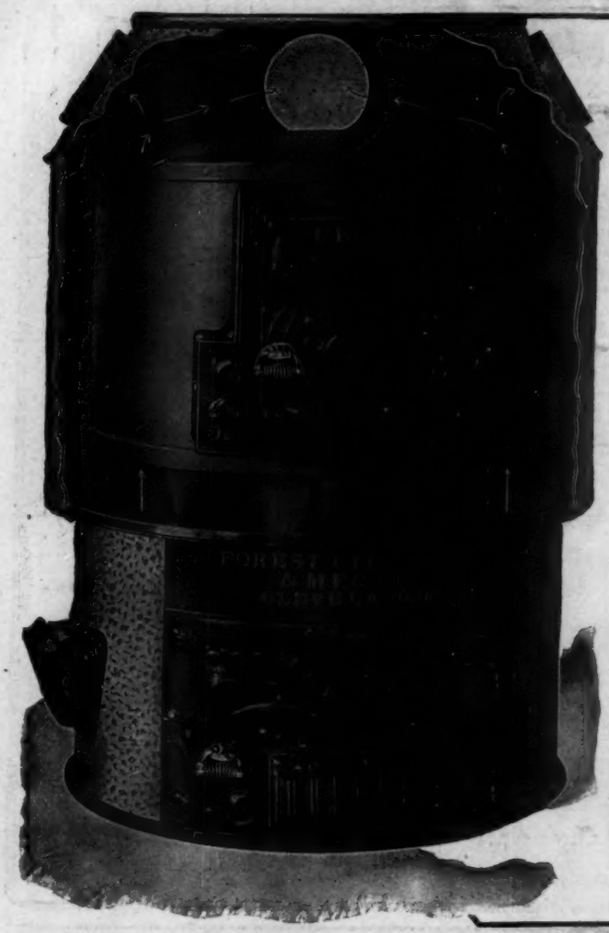
STEEL RANGE is IT

You will fully appreciate its many excellent qualities. All late improvements of practical value are found in Foster's Prize Steel Range. Order a sample—you will not be disappointed if you secure the agency. Foster's Prize Steel Range is a "dealer's money maker" right from the start.

Send for catalog.

Foster Stove Company

IRONTON, OHIO



Century
Warm Air
Furnace

¶ Has many special features which make it the most desirable furnace for any dealer to handle.

¶ The Radiator has triple radiating faces.

¶ The Large Combustion Chamber, formed by the radiator, is a special feature of the Century Furnace, making possible a perfect combustion of gases and deriving the fullest benefits from the fuel consumed.

¶ The Feed Door is Double and unusually large.

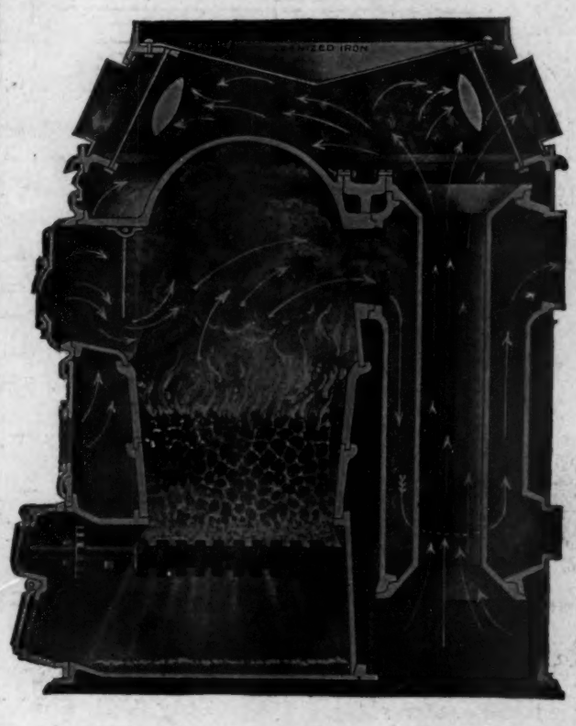
¶ The Firepot is deep and made in sections.

¶ The Ashpit is very large and the heater is easily cleaned and operated.

Send for New Catalogue.

The Forest City Foundry & Manufacturing Company.

Cleveland, Ohio.



Shaded Sectional Cut

of the

"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

March-Brownback Stove Co.

POTTSTOWN, PA.

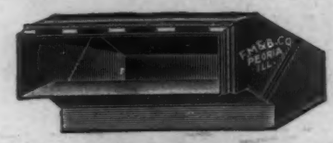
MAKE MORE MONEY

That's easily done—install Improved Handy Furnace Pipe. It pays the dealer a larger profit than any other because he can

SAVE MORE TIME

and time means money, every time. Improved Handy Furnace Pipe can be practically thrown together. The one end is ⅛-inch larger than the other, and it has the longest slip of any double wall pipe made—therefore you can

SAVE MORE LABOR



IMPROVED

HANDY

FURNACE

PIPE

Improved Handy Furnace Pipe is absolutely the very best on the market to-day.

Send for Samples.

All our other lines such as Round Pipe Elbows, Registers, Asbestos, etc., etc., are complete. Our shipping facilities are unsurpassed. Send for Catalog.

F. MEYER & BRO. CO.

PEORIA, ILL.

GILT EDGE BADGER
For Hard Coal

COMBINES ALL THE FEATURES

necessary to make it a most convenient perfect working and economical furnace.

CAST FIRE SECTION

with steel dome and return flue radiator.

PERFECTLY BUILT

and perfectly mounted and having the best of all modern conveniences. Made in 20, 23, 26 and 29-inch fire-pots.

CATALOGUE ON APPLICATION

R. J. SCHWAB & SONS' CO.,
MILWAUKEE, WIS.

To the AMERICAN ARTISAN: ***April 13, 1907.***

I find your paper the best to advertise in. Thanking you for the ed, I am Yours truly, J. J. SPOHN, Rockefeller, Ill.

A Furnace With Special Features

Which will appeal to your customers with a big margin of profit is what you are looking for. Why sell a Furnace almost like your competitor's? A man to make money must get a specialty and push it. It costs no more than any good furnace and sells a great deal easier.

GREEN'S COLONIAL FURNACE

Hot Air Blast Fire Pot which allows the heated air to pass into and over the fire, converts the gas and smoke into heat ***reducing coal bills.***

Double Feed Doors which admit large chunks of coal.

Long Distance Heating by means of the oval opening through the center of radiator. The rooms fartherest from the furnace can be as easily heated as rooms with short runs. Heavy radiator with ***long smoke travel,*** provided with ***direct draft*** and cleanout.

Grate bars ***each operating independent*** of the others, three outer supports instead of one inner support; ***deep ash pit, large combustion chamber; water coil pocket; one-piece base ring; large hot air chamber. Heavy, Durable, Economical.***

WRITE FOR DISCOUNTS! ORDER A SAMPLE

Green Foundry and Furnace Works, (Dept. A) Des Moines, Iowa

? DID IT PAY ?

Every Hardware Dealer interested in the subject of Window Displays should send for a copy of our booklet "Did It Pay," in which we have combined the experiences of a large number of dealers who have made **Window Displays that increased sales** showing photographs of their windows, details of arrangement of goods, different methods employed to get the crowds into their stores, their interior store displays, special window signs, advertising campaigns in local papers, etc., etc.

Itls Simply Full of New Ideas

THE PRITCHARD-STRONG CO.

25 CIRCLE STREET - ROCHESTER, NEW YORK

For quick results in advertising, or up-to-date trade literature, give me The American Artisan every time. ***CHAS. HAHN, Mandan, No. Dak.***

Peoria Lexington Steel Ranges

They Always Lead
Have Never Been Beaten

In the manufacture of these ranges we have spared no expense and can honestly claim they are the best, most substantial and most perfect operating range made. Have double walls of heaviest steel, lined with heavy Asbestos Mill Board. Hand riveted every two inches with **Steeple Head Rivets.**

THE NEW NEVER-BREAK OVEN DOOR
(recently patented), is one of the special features of the Peoria Lexington Steel Range (not found on any other range).

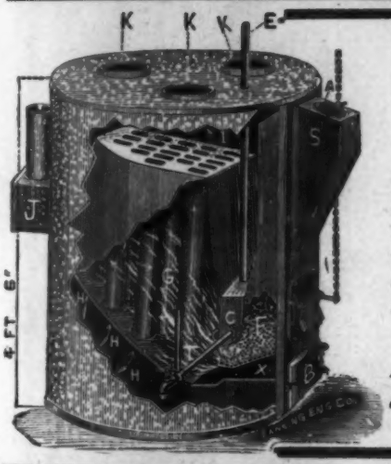
All parts coming in contact with fire or very intense heat are protected with cast iron plates. Highly ornamented. Very economical. A perfect baker. Cooks well. *Send for printed matter.*

Culter & Proctor Stove Company
Hamilton and Water St. **PEORIA, ILL.**

Sell The Cosby Patent Baker & Heater This Season

The fastest selling stoves on the market, because they fill the needs of the people. Cosby Baker and Heaters do **double** work — they **cook** anything—**heat** any room. Bottom and top of cast iron. If you want to sell more stoves—to make more **money**—write us **at once** for full information. Merchants everywhere are adding the line. We are doing much general advertising.

Union Stove Co., (Inc.)
501-2 Mutual Building **Richmond, Va.**



The Garner Smokeless Soft Coal Furnace

burns soft coal without soot. No smoke nor gas in the house, nor soot in the chimney. The most powerful and economical furnace known. Operates on scientific principles. Made in 3 sizes. Heats with hot air only, or in combination with hot water. Will heat more air with less expense than any other heating device on the market. A magazine feed that gives the steadiest heat.

Write for Circulars and Prices.

Agents wanted everywhere and Traveling Salesmen in every State.

THE GARNER HEATING CO., Lansing, Mich.

More Than 10,000 in Use in St. Louis Alone Giving Absolute Satisfaction.

WHEN WE PROVED THAT

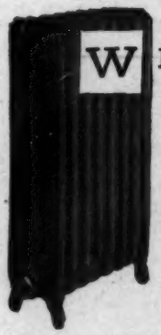
The Front Rank Steel Furnace

burns successfully any kind and any grade of fuel—the radiator not choking up—people in St. Louis stopped installing other furnaces and installed the "Front Rank," 10,000 of 'em and they are giving absolute satisfaction to-day.

How about you taking the agency in your town? Good money in it.

The Front Rank Has the Greatest Demand and Brings the Most Money. Write To-day.

HAYNES-LANGENBERG MFG. CO.
4045-4057 FOREST PARK BLVD. **ST. LOUIS, MO.**



WE MAKE

Plain Radiators

Don't Forget this

Send for Catalogue

Kellogg-Mackay-Cameron Co.

K.-M.-C. Building
Michigan Ave. and 12th St.
CHICAGO

MINNEAPOLIS
101-106 2nd St. South

KANSAS CITY
2nd and Main Streets

SEATTLE
639 New York Block

Waterpan View—WATERLOO.

WHY do plants wither, furniture crack, and people in furnace-heated houses have severe headaches?

Because the Air is Dry and Parched

In homes where WATERLOO Registers are used, the air i always balmy and healthful,—because the WATERLOO supplies **moist** air, as well as warm air.

Occasionally pour a little water in the waterpan at the top of the WATERLOO, and the warm air beneath evaporates the water,—**in exact proportion** to the temperature and volume of the out-flowing warm air.

We'd like to send you our Booklet and quote our Special Prices on the WATERLOO

You'll be Interested!

We carry a Complete Stock of
FLOOR REGISTERS
and a Big Assortment of
Furnace Pipe and Fittings and General Supplies

Just send your name and address. We'll save money for you,—and make quick shipments. Ask for prices on NO-RIVET damper clips.

WATERLOO REGISTER CO., Waterloo, Iowa
PEASE FOUNDRY CO., Toronto, Can., Canadian Manufacturers

Most Accurate of all Furnace Regulators

THE
C. D. HOWARD AUTOMATIC
REGULATES EXACTLY

Perfectly simple to install. No weights, clock work or springs. Operates without attention all winter and keeps the temperature uniform at any desired point. Builders and Furnace Men should see our new Descriptive Booklet which tells why the C. D. Howard Automatic is cheapest for you and best for your customer. Sent Free.

Retails for $25.00. Write for Trade Discounts.

C. D. HOWARD AUTOMATIC FURNACE REGULATOR COMPANY,
127 West Fayette Street, SYRACUSE, N. Y.

Far Superior to any other

THE GOLD COIN

is far superior to any other stove of its kind. Its beautiful and original design surpasses anything ever produced. The Gold Coin is a splendid heater, simple to operate and very economical.

THE ONLY VENTIDUCT BASE BURNER ON THE MARKET—ALL OTHERS ARE BASE IMITATIONS

SEND FOR CATALOG

CHICAGO STOVE WORKS
Blue Island Ave. and 22nd St.
CHICAGO, ILL.

THE Ideal Epworth Acetylene Co.
INCORPORATED

MANUFACTURERS OF THE IDEAL EPWORTH "D" GENERATOR
DEALERS IN CARBIDE, BURNERS, ACETYLENE FIXTURES, ETC

Write for Circulars and Terms

The Ideal Epworth Acetylene Generators

Are Ideal in construction, Ideal in light producing power, Ideal in giving out steady light, Ideal in selling qualities, Ideal in lighting Dwellings, Stores, Hotels, Churches and Towns. Acetylene light is the safest, best, cheapest, brightest, finest light in the world, when produced in the Ideal Epworth Generators. Satisfaction guaranteed. Agents wanted.

IDEAL EPWORTH ACETYLENE CO., (Successors to Epworth Gas, Light & Heating Co., Waterloo, Iowa.)
JOHNSTON, PA. WATERLOO, IOWA

The Horse-Shoe Radiator

Notice the dome with the outer return flue or horse-shoe radiator. It is high enough to give an extra large combustion chamber and at the same time make the furnace low enough for shallow basements. Ample space is left between the dome and the inner circle of outer radiator.

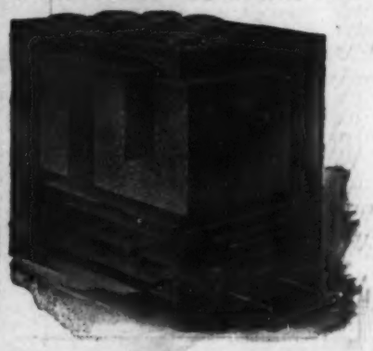
Floral City Capitol Furnace

It is heavily constructed. No flimsy or light material is used. The body and radiator are made of No. 10, No. 8 and No. 6; not No. 16 and No. 20, as most furnaces. Where the products of combustion pass from the body into the outer radiator, a solid cast iron plate instead of steel is used.

Get our latest catalog—new.

Monroe Fdry. & Furnace Co., MONROE, MICH.

Natural Gas Hot Air Furnaces.



The "Manest"

One of our customers writes as follows:

"Please ship me at once one only No. 3 'Manest' Gas Furnace. Please make the price as low as you can as I have many different makes of furnaces to figure against in this town, but I think the No. 3 'Manest' is a good one and will try my best to get it started here."

Name and address furnished upon application.

The Mannen & Esterly Co.
CLEVELAND, OHIO.

Economy, Cleanliness and Durability All Combined in the

Moncrief

Warm Air Furnace

A few of the many good points of the MONCRIEF
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.
825-29 Long Avenue, N. W.
CLEVELAND, O.

Western Sales Agent
J. C. KIMMEL, 3314 E. 15th St.
Kansas City, Mo.

Put That Advertisement in THE AMERICAN ARTISAN If You Want Results

THAT WEAK PIPE

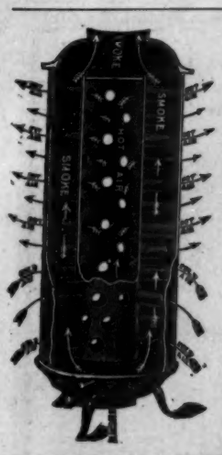
MADE STRONG

It Forces The Warm Air

The long warm air pipe that does not have much pitch may be made as strong as any pipe from the furnace by capping one of the tubes of the "Canton Perfect Blast Furnace" with a common elbow. It *pushes the heat.*

One of the good features. There are others.

THE BONNOT CO., Canton, O. BUILDERS OF GOOD FURNACES



SAVE ONE-HALF YOUR FUEL

by using the

Rochester Radiator

Satisfaction guaranteed or money refunded. Over 100,000 of them in use. Fits any stove or furnace. Price from $2.00 to $12.00 We make the original and genuine "ROCHESTER RADIATOR."

WE DO NOT SELL TO CATALOGUE HOUSES.

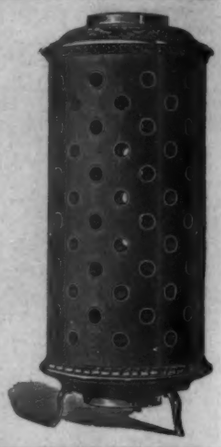
For Hard or Soft Coal, Wood or Gas. We refer all inquiries to you from your town when you carry a stock of our Radiators. We guarantee our Radiators not to choke or interfere with the draught, they are easily cleaned

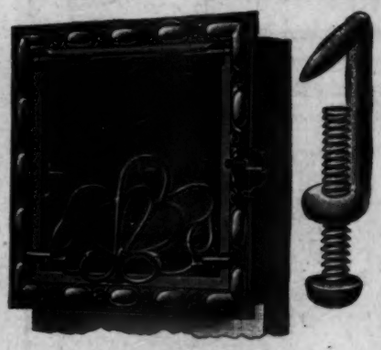
Write for Descriptive Catalogue and prices.

ROCHESTER RADIATOR CO.

120 FURNACE STREET, ROCHESTER, N. Y.

Boston, Mass., S. M Howes Co.
St. Paul, Minn., Farwell, Ozmun, Kirk & Co.
Sioux City, Ia., Knapp & Spencer Co.
Kansas City, Mo., The Harbison & Modjes Mfg. Co.
Kingston, N Y., Canfield Supply Co
Detroit, Mich., Standart Bros., Ltd.
Omaha, Neb., Wright & Willhelmy Co.
Chicago, Ill., Orr & Lockett Hdw. Co.
Portland, Ore., F W Isherwood, Esq.
Hamilton, Ont. The D. Moore Co., Ltd





Hold Fast Hook and Bolt Device
Patent Pending

Symonds Wall Register

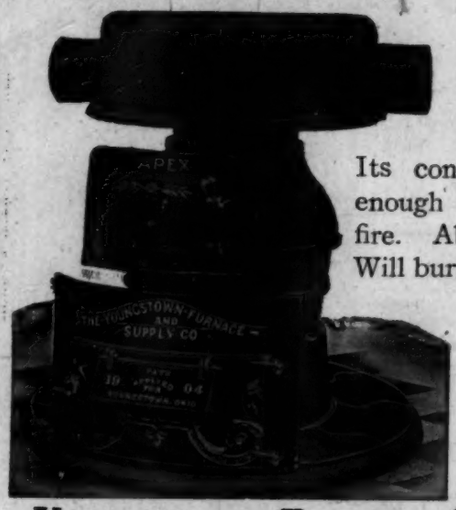
Showing New Holdfast Hook and Bolt Device.

One of the styles we make to install above baseboard — installation not necessary until building is finished.

New Hook and Bolt device eliminates tin strap, rivets, cleats, wood, screws, wire and nails. No breaking of plaster. Conforms with strictest fire laws. Saves time and money. Do you catch on, the hook does.

SYMONDS MFG. CO., EAST ST. LOUIS ILLINOIS

The APEX Warm Air Furnace



is an extra heavy, durable furnace with a most powerful heating capacity. Its construction is strong enough to resist the fiercest fire. Absolutely gas tight. Will burn hard coal, soft coal or coke. Simple to to operate, economical and thoroughly efficient.

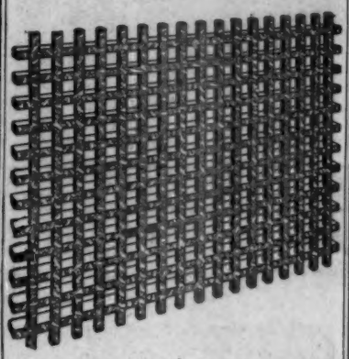
Write Today for Catalogue

Youngstown Furnace & Supply Co.

Chicago Office, 211-213 Lake St. Youngstown, Ohio

Rood & McIntyre, Kansas City, Mo., Southwestern Distributors

The Heating and Ventilating Question Has Always Been a Problem



¶ The objection to Hot Air Heating is the unsightly Black Iron Cold Air Face that should be installed in the house.

¶ The objection to Steam or Hot Water Heating is the unsightly Radiator.

¶ **Now we have solved the problem. We make Hardwood Cold Air Faces for Seat Fronts, Stair Panels, Side Wall, etc.**

WRITE US FOR THE PRICE LIST

THE WOODEN VENTILATOR COMPANY

East Palestine, Ohio

Receives Many Replies.

TO THE AMERICAN ARTISAN:

Kindly take out that ad in your want column. I am receiving so many replies that I cannot answer them all. I have found a set of tinner's tools and must say that I find your paper the best to advertise in.

Thanking you for the ad I am, Yours truly, J. J. SPOHN.

Rockefeller, Ill., April 17, 1907.

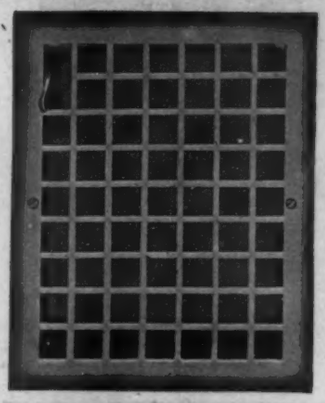
REGISTERS

Semi-Steel Floor—Cast Iron Floor
Wrought Steel Special Side Wall
Cast Iron Special Side Wall

We make them all—in all Finishes
Get our prices before buying

ESTABLISHED 1857

L. J. MUELLER FURNACE CO., 191 REED STREET, Milwaukee, Wis.

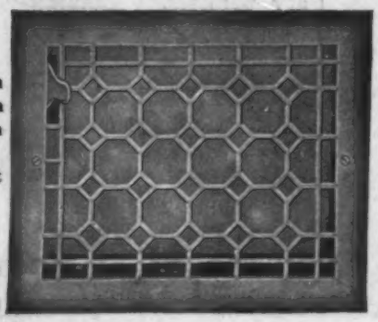


NEW WAFER REGISTERS FOR SIDE WALL

For shallow flues and thin partitions.
Made with a Single Valve.

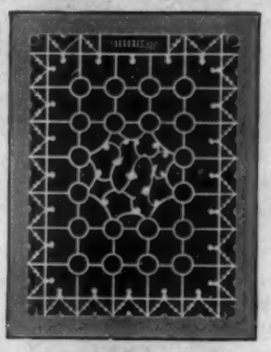
Wrought Steel Plain Lattice Design — **Cast Iron Moorish Design**

Sizes 8x10, 8x12, 9x12 and 10x12 and set both Vertical and Horizontal.



TUTTLE & BAILEY MFG. CO.

New York Chicago Boston



REGISTERS

WE DO NOT BELONG TO THE ASSOCIATION
MAKERS OF WARM AIR REGISTERS

Neat in design and of superior finish. Are interchangeable with all first class makes. We have the largest foundry of any Register manufacturers in the United States.

Our molding room 75x950 feet. We carry large stock insuring prompt shipment.

Get our prices. We can save you 25%.

STANDARD REGISTER CO., Cleveland, Ohio

Register Department of The Standard Foundry & Mfg. Co.

THE LATEST NOVELTY

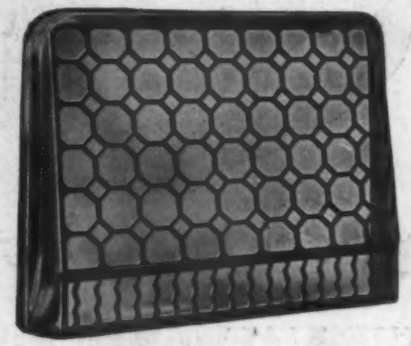
Side Wall Cold Air Inlets

LOOK WELL — WORK WELL

Large Capacity ——— Small Price

WE MAKE ALL KINDS OF REGISTERS

Ferrosteel Company, Cleveland, Ohio



SIDE WALL COLD AIR INLET

VAN'S

Patent Improved Wrought Steel Portable

RANGE

For Hotels, Restaurants, Public Institutions, Boarding Houses and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The
JOHN VAN RANGE CO.
Southwest Corner
5th and Broadway
CINCINNATI - - OHIO

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

NEVER BREAK **CIRCLES PERFECT**

With Lugs—For Double Casings
Without Lugs—For Single Casings
Full Circles—For Ordinary Use
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Always to Exact Circumference From Your Own Dimensions
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READY TO USE **INCREASE PROFITS**

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., Cleveland, O.

Makers of Fine Grey Iron Castings :: :: Mfrs. of Semi-Steel Registers

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES AND ITS POSSESSIONS. (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES INCLUDING CANADA, ONE YEAR, POSTAGE PAID, $4.00
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69 DEARBORN STREET, CHICAGO, ILL.

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CHICAGO, NOVEMBER 23, 1907.

The exports from the Straits Settlements for June to the United States included 1,303 long tons of tin, out of a total export of 5,091 tons, and 51,368 cases of pineapples, out of a total of 119,123 cases exported, as reported by Vice-Consul-General George E. Chamberlin, of Singapore.

Reports of 35 Car Service Associations received during September, 1907, indicate a total of 3,092,430 cars handled, compared with 2,784,923 cars handled during the same month in 1906. Figures for the nine months of the year, 26,588,945 cars, are over 8 per cent in excess of the corresponding 1906 total. While the number of localities from which smaller car service operations are reported for the month is not great. Complaints on the part of shippers of the insufficiency of the car supply are becoming more numerous. A shortage of coal is reported at Lake Erie ports, due to lack of cars. In the middle West the scarcity of cars is said to restrict the movement of coal, while in the Northwest the grain shippers find it difficult to obtain the necessary car supply, with the result that in some localities many elevators have been forced to close down for the time being. An abnormal accumulation of freight at the important traffic centers of Buffalo and Pittsburg is also ascribed to the inability of the railroads to handle with proper dispatch the freight offered.

Why a Lack of Confidence?

WHAT are the conditions that prevail in this country to-day. Crops for the year have been far above the normal, though deficient in other countries, who come to us for grain, and farmers are right now taking prices for their products that are double those taken in other times of supposed prosperity. Mortgages have been sponged off the record books to an extent unparalleled in the history of the nation. The American farmer is rich beyond belief and has more ready money than has ever been known before. The country's mineral yeild has not decreased as compared with other notably prosperous years. The forests have given up their treasuries in remarkable abundance and with all this we have a lack of becoming confidence among business men. What a peculiar situation. It is a veritable "death head at a feast." Whoever before heard of a business depression or a lack of money to do business with in the midst of unbounded wealth and plenty. It is all indeed supremely ridiculous. Nothing is lacking but confidence, and why a wavering of confidence among business men? We have everything. Is there any less opportunity for business investment than there has been? Are the commodities that are the real and only wealth of the nation and of the world of less value, and are they less real than they have always been? With a nation full of people far richer than those of any other nation on the face of the globe are we to forego the opportunity to serve them, to trade with them, to exchange with them what we have for their weaith? Shall we doubt what we know, and see, and fully realize concerning the marvelous wealth that is ours, and which merely awaits the medium of exchange to make it all active and to bring about an immediate prosperity such as no other nation has ever enjoyed? Really this is not the time nor the place for halting, doubt or pessimism. It is a time for common sense analyzation of the real situation—a situation which presents nothing whatever that is in any way consistent with a lack of confidence in our own affairs.

His Majesty the Farmer.

TEN years ago the poverty of the farmer in the United States was the fruitful topic of the pessimist. A thousand writers, East and West, North and South, were busy depicting his troubles, busy in the fields of exaggeration and romance. Near statesmen like United States Senator Peffer of Kansas and bewiskered fame, talked and wrote freely of the farmer's troubles and in language like this—an extract from Senator Peffer's book entitled "The Farmer's Side, His Troubles and Their Remedies":

"Farmers are passing through the valley of the shadow of death; farming as a business is profitless; values of farm products have fallen 50 per cent during the last ten years; farmers are overwhelmed with debts secured by mortgages on their homes, unable in many instances to pay even the interest as it falls due and unable to renew the loans because securities are weakening by reason of the general depression; many farmers are losing their homes under this dreadful blight, and the mortgage mill still grinds. We are in the hands of a merciless power; the people's homes are at stake."

Reckless and ridiculous prophecies of pending disaster became the fashion. Reckless and ridiculous politicians bestrode the saddle and sought place and power. But the sober second thought and sound common sense of the American people headed off disaster and General Prosperity took command of the twentieth-century campaign.

To-day the lot of the American farmer is the most enviable on earth. Exactly the reverse of the condition described by Senator Peffer. So far is he from being in "the valley of the shadow of death" that he is on the top wave of prosperity. All good fortune is his. Debts, mortgages, and worry have disappeared—and the lot of the American farmer is the envy of the world.

Farming is now not a profitless business but one of the most profitable. As the Wall Street Journal recently pointed out, "even with smaller crops the farmers are getting from 20 to 50 per cent more for their grains than was the case last year. Farmers are not as a rule in debt. On the contrary they are lending money, improving their properties and spending much more freely than ever they have before. Instead of paying interest they are receiving interest, because they have become investors. They are not losing their homes, but they are buying and making more and more homes in districts which ten years ago were not regarded as habitable, much less worthy of cultivation. Far from farmers being subjects of other powers, they are themselves among the most powerful of interests both financially and politically. Instead of their homes being at stake they are the most strongly intrenched people of the country in comfortable and secure standards of living."

The prosperity of the farmer means the prosperity of the nation. Every merchant in every country town watches the crops with as great assiduity and interest as does their owner. In the reflection that the farmer has come into his own and is now on the top wave of prosperity there is unbounded comfort and consolation, therefore, for every retail merchant. The farmer has not only the purchasing power, but the undoubted wherewithal. When he has the price he buys freely. Hence it seems safe to predict good business in the hardware trade.

Influence of Window Dressing.

One of the good effects of painstaking window dressing is rarely alluded to, but is important nevertheless. That is the effect on the inside of the store; the effect on salesmen and stock in addition to the exterior effect on the public. Many hardware dealers are accustomed to think of their window display as valuable only in the latter respect, the effect on spectators and its likelihood to convert them into customers. But this is only part of the mission successfully accomplished by good window trimming.

It has a reflex action on the staff and stock just as surely as a new suit of clothes and a clean shave affects the spirit and feelings of the man long unaccustomed to either, and increase his self-respect.

When clerks have to work behind show windows that are unkempt and unclean they often insensibly fall into careless habits in keeping stock and the interior appearance of the store grows more and more like that of the window. A carelessly kept stock often results in the careless handling of customers and consequent loss of trade. Men are inevitably affected by their surroundings and one will not nowadays look behind unclean, disorderly windows for up-to-date stock and polite, well-informed salesmen.

A careful window show, on the other hand, including goods displayed with taste and good judgment, insensibly puts the salesman on his mettle. Where pride is taken in the show-window pride will generally be taken in the stock. Clerks will take pride in their personal appearance and seek a higher standard of salesmanship. In nine cases out of ten where careful attention is paid to the show-windows the stock will be found to be fresher, cleaner, better assorted and more conveniently arranged than in the stores which pay no attention at all to their window displays or dress the windows perfunctorily, regarding them as of little importance.

It is of course necessary to study the adaptability of all hardware items to window dressing and to carefully consider the availability of each item in the store for certain situations in the display, both as relates to its general comeliness or effectiveness and also as concerns its seasonableness for the purpose, and thus the window work compels the merchant to keep passing in review all the items of an entire stock, and this process is in itself a thoroughly valuable exercise for him. In this process dead and dying articles are often brought to the front and given new life and selling vigor. Quite often goodly quantities of goods that were deemed "dead ones" have been reinvigorated and made good sellers again merely because they were, possibly by accident more than by design, put to the front and given a chance in the window. Really there are many unopened packages of new goods lying idle and forgotten in hardware stores that would go into quick sale if their existence would but be known once in a while at proper times and in proper season.

Take, for example, roller skates. Twenty years ago, in fact throughout the '80s, roller skates were in wide demand. Skating rinks were numerous and for several years roller skating was a popular craze. Then the sport suddenly died out and a great many hardware merchants were left with stocks of roller skates on hand, and these could not be disposed of at any sacrifice. They were boxed up and stored away, the merchants even grudging them storage room.

Today the sport of roller skating is more popular and widespread than ever before. The dead sport has sprung into more vigorous life and the demand for roller skates during the past year has been often greater than the manufacturers could supply. As the revived sport—one can hardly call it a craze—reached one town after another and long-forgotten skates in storage came to mind and in many cases furnished the basis of great profit in hardware stores. Country merchants embraced the opportunity to work off the old stock and rejoiced at the chance. The trade and the public benefited alike and the merry roll of the long-forgotten skates made welcome music in the ear of many a hardware dealer.

It is for this, therefore, as well as other reasons already set forth, that The American Artisan, in the best interests of the hardware trade, has once more offered one hundred dollars in gold for the encouragement of artistic hardware window dressing.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

There has never been a time in the history of this country, or in the history of the world for that matter, when the pessimist, the calamity howler, had so little to sustain his case as at the present time. All riches comes from the earth. Has it ceased yielding? In no manner whatever, and our farmers are richer today, not only in substance, but in actual money, than the world has ever known them to be. Then why a lack of confidence? Why the prevailing pessimism that cannot upbuild and gain but can only poison and destroy? It is all utterly senseless. What a strange state of affairs it is that amid a most phenomenal prosperity a fleeting poisoning breath of suspicion should find lodgment at a time when nothing confirms its insinuations and everything contradicts them. Is this reason? Is it the part of prudence? Certainly not. It is time for a sane awakening and an upbuilding of confidence upon lines that are amply justified by a square consideration of the real state of affairs as they exist. As indicating how ridiculous is the real state of affairs at the fountain-head right next to the soil and the situation next removed where in a measure a wavering of confidence that finds no possible apology or explanation there is cited here a fresh communication from the middle of the state of Minnesota. It is by a shrewd, observing commercial representative, working through the state. Extracts are as follows:

"I was in Hutchinson a few days ago in a big hardware store. A farmer just went out of the store that had come in to ask the proprietor if the firm could use a few hundred or a thousand dollars that he had no use for, and that the bank would not pay him interest on. I asked how that could be when there is such a scarcity of money. He said there was no scarcity of money, the farmers come in every day and ask him to take some of their money and pay them a little interest, but they had no use for it; he said they had too much money idle in the bank now that was not earning them any interest. Of course these merchants are very rich people for a Minnesota country town, probably worth close to $100,000, counting farm lands and other real estate. One of the firm members told me that he could take a drive out in the country any day and get $50,000 from farmers in small amounts of up to two or three thousand each and would not have to pay more than 4 per cent per annum interest and without security. Still when I asked him to give me some spring business he was not quite sure whether they would need any goods next year or not, as he seemed to think all business would stop.

I came into another store in another town where the dealer was very busy with stoves. I made some remark to him about them, and he said that he had sold a great many stoves this year. He took time to stop and talk a little while and among other things said: "I will tell you what is the best thing about this; I haven't sold a single stove on time this year; everything for cash. I have never done that before." When I asked him to give me his saw order a little later he said: "I believe we are going to have hard times. I am afraid I won't need many saws next year. I think things are going to shut down entirely. At any rate I won't buy until after January 1st."

As I have traveled through the country there have been more farmers pointed out to me that have made fortunes on this year's crop alone than ever before. Mr. Cowing of Alexandria said to me about a farmer that had been in to pay his account as he was going out of the store: "A year ago that man wasn't worth anything with exception of a few horses and a little machinery. He bought half a section of land, going in debt for the entire amount. He planted practically the whole farm in barley, and when he had sold his harvest he paid for the entire farm and put $2,000 in the bank besides."

At Moorhead, Minn., several farmers who had made fortunes of from ten to twenty-five thousand dollars on potatoes were pointed out to me. It is a great potato country and it is not uncommon to see fields of 1,000 acres into potatoes.

I was out to a small country farm a few days ago and the hardware dealer told me that he had now only one account outstanding. He meant farmers' accounts that had been running during the summer to be paid in the fall. Those were all paid up but one. He said collections were better than he had ever seen them, but nevertheless this same dealer was looking for hard times.

I guess this will do. One thing is sure, however. It is very hard to sell goods right now for spring delivery, but if this hard times talk will only cease I don't see why we should not have good business, particularly in the country towns, and a little decline in lumber prices and labor prices would help, I think, to stimulate building, and, of course, the use of tools."

* * *

A hardware dealer in a Texas city has an advertising plan that pays its own way and works well besides. In front of his store, he puts a neat blackboard, headed "Bureau of Information." Under this are the sub-heads "Help Wanted" and "Work Wanted." The lists under each are similar to the want ads in the daily paper. If the merchant has a job listed, he gives it to the person wanting work without charge. If he asks the merchant to get him a place, he pays 25 cents for registration and notification by postal card. The same course is followed with employers. If search must be made, the charge is made, but not if there is an applicant. The merchant guarantees nothing. He simply registers the names and the wants and gives the use of the blackboard. This blackboard is placed just outside an attractively arranged show window full of goods and prices and stops twice the people the window display alone would. Around the blackboard on the sidewalk are a number of inviting bargains and others in sight just inside the door. Many persons who stop out of curiosity to scan the board are brought inside by the bargains. Those who get help or work through it naturally feel well disposed. The reputation the blackboard has brought and the consequent increased trade have been such that an extra clerk will soon be needed to attend the "bureau" and the trade it brings.

News Siftings

The Early Sun Stove Co., of Newark, O., which was recently chartered, will manufacture gas and coal heaters. It is stated that the company will employ 100 moulders.

The Art Stove Company of Detroit, Mich., recently purchased a building site at Grand boulevard, Hasting and Rivard street. The present purchase is located near the company's plant.

Mr. James R. Graves, secretary of the Chicago Stove Works of Chicago, Ill., has been confined to his bed owing to an attack of pleurisy for a fortnight or more. His many friends will be pleased to learn that his is speedily convalescing.

Stove dealers throughout several of the natural gas districts of Indiana are reported to have sold more coal and wood stoves this season than ever before since natural gas has come into use. The cause for this is said to be in the fact that natural gas is not to be relied upon. A stove merchant in New Castle states that he has sold a great many more stoves this year than he did a year ago, his aggregate this year running to nearly 500. Other stove dealers in the same locality report very large stove sales.

Mr. John R. McKnight, who for many years past has been secretary of the Pennsylvania Stove Salesmen's Association, will give up this post on December 31 to assume the duties of treasurer and general manager of the Mt. Penn Stove Works of Reading, Pa., to which office he has recently been elected. He will assume this position on the first of the year. Mr. Wm. R. Schaeffer, the present secretary of the company, has been elected to the general superintendency of the manufacturing department of the plant, succeeding the late J. Allison Orr. These duties will be assumed in addition to those of the secretaryship.

The A. G. Brauer Supply Co. of 316 N. Third street, St. Louis, Mo., has been engaged in conducting the stove repair business and supplying castings to the trade for a period of nearly twenty years. It has been the policy of the company ever since its inception to keep increasing its line of patterns steadily and a large and very choice assortment has been accumulated. One important feature of the company's business dealings has been promptness in executing orders, and this has given it a very desirable prestige. As now equipped there are but few other stove repair concerns in the country that are as well prepared as it is to meet demands for all stove repairs. Correct methods of doing business and correct methods of treating patrons has built up for the A. G. Brauer Supply Co. a very excellent steady patronage, and it is to be hoped that this will continue to grow.

Gas stoves and gas heating apparatus in connection with Champion Water Heaters, for use with kitchen ranges, are the subject of the very neat booklet recently issued by the Champion Steel Range Company of Cleveland, O. The heaters run both to open and enclosed gas fires and with mica front illuminations. In some of the gas heating patterns there are provided ventiduct flues, which very materially increase the radiating surface, and at the same time provide for the distribution of the heated air after it has been produced. The Champion Hot Air Radiator, which is shown in the assortment, is a very excellent example of gas heating stove of this type. Naturally, of course, the gas line, we notice, is in a measure supplementary to the regular line of Champion Steel Ranges, which has been upon the marekt for so many years and has always been so very highly regarded by the hardware and stove trade.

The Ohio Stove Manufacturers' Association met at the Great Southern Hotel in Columbus, O., on November 12. The purpose of the meeting as stated was to provide a means for increasing its membership and the suggestion was made looking toward a union between the stove manufacturers of Ohio and northern Indiana. A committee was appointed to work out a new constitution and to secure new members. It is said that there are twenty-five active members at present. The association is to meet again at the call of the committee. M. Hertenstein is president of the association and Allen W. Williams secretary.

FOSTER'S WINNER STEEL RANGE.

"Foster's Winner" Steel Range is among the high grade steel range productions of the present time. In its planning there was taken into consideration the advantages, the ornamentation and the faults and failures in any and all features of other steel ranges that had preceded it in the steel range field and an endeavor was made to eliminate all that was unworthy and to include all that was in a general way meritorious in modern construction of its price scale and general type and as a result the product now known as "Foster's Winner" is offered to the trade. In the steel range in question ample capacity both as to flues, firebox, oven and ashpit are nicely taken care of and the equalizing of the capacities of the flue and firebox have been worked out to a precision that utilizes in actual work the entire amount of fuel consumed for the purposes of general cooking, warming and baking. It is a good liberal range in all ways. The top is large, broad and roomy. The oven measurements run to ample figures. The reservoir section and its tank are ample and thus the entire structure is in liberal proportions.

It is built in Wellsville polished heavy steel by experienced mechanics and suitable machinery, so that the bending, piercing and close riveting are done in a most careful and correct manner. The cast iron work is all in rich and sharply molded designs and its attachment and fitting to the steel body section is in all parts close, tight and permanent to a degree. The fire box is ample in size and carries a modern duplex dump grate with wood provisions and a wood extension plate that provides for liberal wood lengths.

Ornamentally, Foster's Winner is just about on the line of modern acceptability. It is bright, clean and handsome without an overdoing of nickel work, though amply illuminated by clever and well placed nickel treatment which occurs in a full nickel front top edge strip, ornamental front nickel lower panel, oven door name plate, tea shelves and high warming closet panel and borderings. Special features are full asbestos in-

terlining, balanced oven door, swing ash pit door, heavy cast linings to firebox and cast encased enameled reservoir. Made in all the usual steel range combinations and in numerous sizes to suit requirements. Catalogue and prices on application by addressing The Foster Stove Co., Ironton, Ohio. In writing kindly mention THE AMERICAN ARTISAN.

BALTZLY STOVE TRUCK.

A good stove truck is one of the most convenient and satisfactory items of business furniture that a stove selling establishment can have around its premises for the reason that if it is a good actor it will pick up and arrange for the easy moving of any stove no matter how large or how small from any point to any point that may be desired. This assistance while it is a great convenience is also a great economy as in endeavoring to remove or to readjust stoves upon the floor of the store there are possible many breakages, and the time occupied in shifting stoves by hand is so much greater than by a good truck and the waste in this way is apt to be extravagant.

The Arcade Manufacturing Co., of Freeport, Ill., manufactures and offers to the trade what is known as the Baltzly stove truck, which is not intended as any combination affair that will lift anything, move anything or cure anything. It is simply a stove truck, pure and simple, and the best one you ever saw. It is made of steel and will last practically forever as far as wear is concerned. It is not an expensive truck. In its catalogue the company not only gives facts relating to the stove truck but it also offers some four or five hundred other items in the line of hardware specialties that are altogether worth while looking into by retail hardware dealers. The catalogue may be had upon application by addressing the company as above indicated.

AMERICAN PEAT ASSOCIATION.

After many years of agitation the plan for the organization of those interested in the development of American peat and swamp lands has matured so far that the dates, October 23 to 26, have been selected for a meeting to be held at the Jamestown Exposition where the technological branch of the United States Geological Survey has established a fuel testing plant where peat and swamp products will be on exhibition for examination and comparison. A large committee of which Dr. Joseph Hyde Pratt, Mines and Metallurgy Building, Jamestown Exposition, Virginia, is chairman, and Julius Bordollo, temporary secretary, has the matter in charge and has issued communications to all those interested in peat, from either a commercial or scientific standpoint, extending a cordial invitation to be present at the meeting. It is hoped that this will mark the beginning of peat enterprises on a commercial as well as a scientific basis in all parts of the country.

The tentative plan for the exhibit include showing differences in origin, structure and amount of decomposition. Peat will also be shown as fuel, hand and machine made bricks, briquettes, as coke and charcoal, as a fertilizer, peat litter, peat mull, showing uses as a deodorizer and disinfectant, peat paper and peat fabrics and machinery for making peat products. Illustrations of peat plants, United States and foreign reports on swamp lands including swamp maps and various reports on reclaimed swamp land will also be shown.

The three days' session will be followed by an excursion to the dismal swamp. On October 25th the advisory board, composed of fuel experts from the entire country, who direct the experimental work of the technologic branch of the United States Geological Survey, will meet, at which time the formal opening of the Fuel and Alcohol Building will take place. Further details of the meeting may be had from the temporary secretary, Julius Bordello, Kingsbridge, New York City.

A NEW FUEL.

A new fuel called "coalite" is attracting wide attention in England, largely through an active advertising campaign. In the first reports that were received in this country such extravagant claims were put forward that it was considered a fraud. In the prospectus of the British Coalite Company a more complete description of this semi-coke is given than has heretofore been available in this country. It is described as an improved coal, obtained after a low-temperature distillation of the common bituminous varieties. This process is claimed to distill all the smoke-producing compounds without breaking up the liquid hydrocarbons. In the coking process about twice as much liquid by-product and about half the usual amount of gas is obtained as in gas works. This lower-temperature treatment of coal, intended to produce a good domestic fuel and a large yield of liquid by-products, is claimed as an advance of great importance to the general public. Coalite has been approved by the British Smoke Abatement Society as being entirely smokeless and superior to coal of the best quality.

Among the other advantages claimed for the new fuel in the prospectus are quick lighting, maintenance of a clear fire for several hours without attention, together with the possibility of a low fire which does not easily go out, adaptability to any grate, stove or furnace.

Calorimeter tests of coalite show a value of 13,500 B. T. U. per pound as compared with 14,800 B. T. U. for the best of bituminous or semi-bituminous coals. It is stated that nearly all the heat in coalite is available for heating, while with bituminous coals a considerable part of the heat generated, especially in the early part of combustion, goes to breaking down and driving off the hydro-carbons which appear as smoke. Until this distillation is completed the fire burns "dead," and after completion only about 50 per cent of the total number of heat units are available. The relative number of B. T. U. utilized in actual heating are placed at 7,500 and 13,800 with bituminous coal and coalite, respectively. The prospectus claims that of the 13,000,000 tons of soft coals burned in London about 330,000 tons are wasted in smoke and soot. It is sought to replace this use of soft coals by coalite. The statements made in the prospectus are attested to by several British experts.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 34 to 39 inclusive.

Perry Cooper has bought the Galloway Hardware stock at Stronghurst, Ill.

W. W. Anderson of Sadorus, Illinois, has sold his hardware stock at that place.

J. C. Shaw of Wallaceburg, Ont., is making some alterations in his hardware store.

Aaron Child & Son of Gravenhurst, Ont., have sold their hardware business to R. O. Miller.

Auren S. Brewer of Tampico, Ill., has sold his hardware business to Richard Allen of Madison, Ill.

W. W. Anderson of Sadorus, Ill., has sold out his hardware business, but to whom we are not yet advised.

Johnson & Carstensen are looking for a store room at Elkhorn, Ia., with a view to opening a hardware store there.

C. O. Nelson has opened up a new hardware store at Rockford, Ill. It is reported that he will carry a very good stock.

The Fort Williams Hardware Company's store at Fort Williams, Ont., recently suffered a fire loss to the amount of $5,000.

The Adams & Carr Co. of Fonda, Ia., are contemplating adding a hardware stock to their implement store at a very early date.

The Hull & Bangs hardware store at Waukegan, Ill., was recently burglarized and cutlery and other goods were taken to the value of $350.

At a meeting of the directors of the Reading Hardware Co., held on Nov. 14th, Mr. Matthan Harbster was chosen general manager of the company.

A new furnace manufacturing plant is reported to be in process of organization at Watertown, S. D. Mr. M. W. Sheafe is said to be the chief promoter.

A change in the ownership of the E. A. Beverstock hardware store at Bowling Green, Ohio, was recently made, the stock having been purchased by Fred Bigby.

Frank Phillips, hardware dealer at Souris, Manitoba, has disposed of his business to John M. Phillips, who will continue the business under the style of Phillips Bros.

The Lamb Fence Co. of London, Ont., has made a change in its power arrangement, and in future will operate its machinery by a new type of "producer" gas engine.

Burglars entered the hardware store of Andre Leroux, at Montreal, Que., recently and took away a large amount of valuable cutlery and guns and a promissory note for $3,000.

O. A. Lapo, a hardware dealer of Lake Odessa, Mich., has bought out the hardware business of O. A. Matchelder, and the two hardware businesses will be consolidated into one.

The McFall Tool & Mfg. Company has applied for a charter under the state laws of Pennsylvania. The business as stated is to be the manufacture of articles of steel or iron or both and the manufacture and production of silverware, plated ware and other articles of like nature. The company will establish itself at Scranton, Pa.

W. J. McCoy, a hardware dealer of Thompson, Ill., who recently bought a store building at that place, is having the premises overhauled and will move his hardware store into it.

The hardware store of Van Velzer & Bro. of Mason City, Ill., was burglarized for the second time recently on November 12. Cutlery, revolvers and watches were taken to the value of $150.

A new axe factory has been equipped and put into operation at St. John, Ont., by Henry Dailey & Co. The company has a large building and it is their purpose to manufacture axes of all grades.

The Enfield Washing Machine Co., manufacturers of washing machines at Carmi, Ill., has been organized. The following are the officers: R. Gott, president; John Mathias, secretary-treasurer.

L. & P. Panner, hardware dealers of Crafton, Pa., have incorporated their business under the style of the Panner Hardware Co. The incorporators are P. H. Buckley, Philip Panner, D. J. Buckley and Henry Panner.

Mr. C. H. Orr of Blue Creek, Tenn., has bought a half interest in the hardware business known as the Dickinson hardware store Lynnville, Tenn. The new concern will be known as the Dickinson-Orr Hardware Co.

On the night of November 8 a large iron bar was thrown through the plate glass door of the McKee-Craig Co.'s hardware store at Marshalltown, Ia. The store was entered and a large stock of cutlery and hardware taken.

At a quarterly meeting of the directors of the Southington Cutlery Company, of Southington, Conn., held recently no dividend was declared, although it is reported that the factory and the business were found to be in excellent condition.

Fell & Lovett are about to engage in the hardware business at Crawfordsville, Ind. Both Mr. Fell and Mr. Lovett are said to be young men who are practical hardware men and the store location which they have in view is said to be a good one.

The hardware store of F. L. B. Taft at Le Roy, New York, was burglarized on October 18. Quite an amount of the best cutlery and silverware and some revolvers, cartridges and a number of watches, and a small amount of money were taken.

A communication from Dallas, Tex., states that a cold wave and heavy snow has stimulated local hardware trade noticably and that stoves are in wonderfully active demand both at Dallas and throughout the northern and central western parts of Texas.

The Wallace Incubator Co. has recently been incorporated to do business at St. Joseph, Mo., with a capitalization of $10,000. The company will manufacture incubators. The incorporators are H. Wyeth, L. C. Hamilton, John S. Brittain, and E. M. Wallace.

William Wierich of Colton, Ohio, has bought out the hardware stock of T. G. Emerson at St. John's, Ohio, together with some other property which Mr.

Emerson had been holding. The consideration in the transaction was $16,900. The new owner will take possession at once.

The Bond Hardware Co. at Guelph, Ont., had a very close call from fire on November 11, a very large fire having destroyed the big livery establishment next adjoining the hardware company's premises. Outside of loss occasioned by water, however, the stock was practically uninjured.

In a fire, reported in these columns last week, which recently burned the Carson hardware store at Macomb, Illinois, the stock is said to have been valued at $25,000 and the insurance upon it $12,000. Most of the goods were destroyed. The adjustment of the loss has not yet been made.

What is generally known as the Postoffice Hardware Store and is operated by J. Guilbert at Letellier, Manitoba, was completely destroyed by fire recently. The fire was occasioned by a lamp falling to the floor just as the store was being colsed for the night. Loss, $8,000. Insurance, $3,600.

A recent fire in the basement of the Weld Hardware Co.'s store at Council Bluffs, Ia., for a time threatened the destruction of the establishment, but by vigorous work on the part of the employes the blaze was subdued. The loss by smoke and water will amount to considerable but no figures are given.

It is reported that the hardware firm of Nord & Hird of St. Charles, Ill., have in contemplation an early dissolution of the firm, the occasion therefor being the long continued illness of Preston Hird, the junior partner, who has been confined to his home much of the time by rheumatic troubles.

Mr. C. B. Bendlage of Marshalltown, Iowa, has taken out patent for a hoe or rake handle connection. By a simple device the hoe blade may be altered in its position to be made to do the service of a dandelion digger or other services. It is a device which makes the ordinary hoe useful for other purposes.

Iwans' Volcano Revolving Chimney Top is one of the hardware items that is particularly adapted to this season of the year. In this construction attention is called to the upward sloping opening in the back of the hood, which creates a constant upward draft no matter how depressing may be the atmosphere. Literature relating to this chimney top may be had by addressing Iwan Brothers, Streator, Ill.

At a meeting of the Kansas City Vehicle and Hardware Club at the Coates House, in Kansas City, November 12, the following officers were elected: President, W. L. Day; first vice-president, J. W. Wilson; second vice-president, H. G. Moore; secretary, J. A. Baird; treasurer, H. H. Turnbull. The executive committee is as follows: W. M. Ferguson, G. A. Parker, C. R. Butler, E. O. Faeth and W. F. Roth.

Winnipeg, Manitoba, has a wholesale hardware hockey league in which hardware people of the vicinity are very much interested. The honorary presidents are J. H. Ashdown, H. Miller, J. G. Gillespie, H. Annis; president, A. Tulthorpe; vice-president, W. M. Irwin; secretary-treasurer, H. H. Trigge; executive committee, A. Ross, R. R. Dunn, W. Martin and G. P. Hoskins. Miller, Morse & Co., J. H. Ashdown Co., Marshall-Wells Co. and Geo. D. Wood & Co. have signified their intentions of joining the league and taking an active part in the sport.

The trustees in bankruptcy, who have had in charge the bankruptcy matters relating to the failure of A. W. Argraves, hardware dealer of Sterling, Ill., have declared the final dividend in bankruptcy and made full payments in connection therewith. The final dividend was 20 per cent all creditors sharing alike. The first dividend which was declared about a month ago was 25 per cent making a total adjustment of the affair at 45 cents on the dollar.

In the recent fire in the Reynolds Hardware Company's store at Davenport, Iowa, the place was pretty thoroughly wrecked. A total loss was claimed on practically everything in the store. The stock is covered by insurance, which is distributed among fifteen policies with a total of $13,050. The insurance on fixtures amounts to $1,250 and the loss upon the building is covered in full by insurance. The company will rearrange its matters and will continue in business as soon as a new stock and new premises may be had.

With characteristic energy and foresight, Memphis is already at work in preparing for the annual conventions of the American Hardware Manufacturers' Association and the National Hardware Association, both of which will meet in Memphis in October, 1908. Committees representing the hardware jobbers of Memphis have made a systematic canvass of the hotels of the city for the purpose of engaging accommodation for the large number of delegates who will attend the convention. We are advised that the result of the canvass was wholly gratifying to the committee, and that it is ready to announce to the members of both associations and to hardware manufacturers and jobbers throughout the country that Memphis is amply equipped with hotel facilities to handle all the delegates who will attend, and in addition it is prepared to furnish a programme of entertainment that will be entirely agreeable to the visiting hardware men.

Electrical toys and Christmas tree outfits will be more popular than ever before this year, as there is a constantly growing interest among all people in the development of electricity as applied to all uses. Hardware dealers should bear this in mind. There is the opportunity to secure properly adapted electrical hardware store assortments of these and other goods of the class that are ready sellers and good profit makers by getting in touch with the current line of supply. The Manhattan Electrical Co. of 188 Fifth avenue, Chicago, makes a specialty of electrical devices that are well adapted to hardware stores for holiday and for all seasons. An excellent catalogue may be had from them on application.

One of the paint specialties that has stood all of the tests and has continued along for many years in very high favor among hardware dealers and others who carry ready mixed paint in stock is Pitkin's Barn Paint. By specializing this commodity and grinding and preparing it for the special use for which it is designed, it has been possible to hold it closely to the requirements for barns and outdoor work, and thus Pitkin's Barn

Paint has come to be sought above all others when barns or other like work require painting. It is a factory product, being made in a paint mill equipped with the highest types of modern paint making machinery, and also having the best facilities for exact work in the manufacture of not only this but all other classes of ready to use paints. With every package of Pitkin Barn Paint there goes a guarantee that their barn paint will wear for five years without renewal. Pitkin Barn Paint is manufactured by the Geo. W. Pitkin Co., of Benton Harbor, Mich.

$100.00 FOR HARDWARE WINDOW.

In an editorial entitled "Selections for Hardware Windows," upon page 17 of THE AMERICAN ARTISAN of the issue of November 16, a feature of the hardware window display problem is treated upon. The matter touched upon related wholly to suggestions concerning the selections of hardware articles that offer good opportunities for successful results in window trimming. As a rule it will be noticed that a majority of the best appearing show windows in all lines of business are confined to treatments with single varieties or classes of wares. Two very good reasons for this are, first comparisons and possibly graduated comparisons are permitted, and again the progressive order of such an arrangement as a rule permits of more uniformity of arrangement than is possible where articles of widely differing sizes and shape are put into use.

In another part of this issue of this paper there will be found a photo half-tone illustration of a Cleveland, O., hardware window display that is entirely made up of edge tools. As this display follows along the same lines as are suggested in the editorial referred to it will be of interest to retail hardware dealers who are making the store window display effort.

Attention is here again called to our hardware window display contest. Everybody has a chance to win a prize in accordance with the terms below shown.

A list of the prizes to be awarded by THE AMERICAN ARTISAN and the conditions governing its hardware window dressing contest is as follows:

The Prizes.

The prizes will be awarded as follows:

First Prize, $50 in gold for the best photograph and description received of a window display of hardware.

Second Prize, $25 in gold for the photograph and description second in excellence.

Third Prize, $15 in gold for the photograph and description third in excellence.

Fourth Prize, $10 in gold for the photograph and description fourth in excellence.

The Conditions.

The conditions of the competition are as follows:

The photographs may be sent by mail or express, charges prepaid, and must reach this office not later than noon, January 1, 1909. Address all photographs to THE AMERICAN ARTISAN Prize Competition, 69 Dearborn street, Chicago, Illinois.

Each photograph and description must be signed by a fictitious name or device and the same name and device must be put upon a sealed envelope containing the real name and address of the contestant. This sealed envelope is to be enclosed with the photograph.

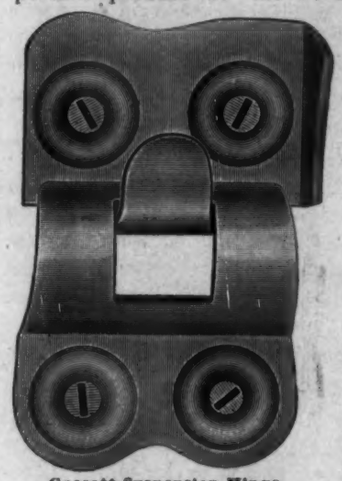
AWARD OF PRIZES.

A competition committee of three will be appointed, one of whom will be an expert window dresser and one an experienced hardware man. This committee will pass upon the merits of all photographs and descriptions received, without knowing the names or addresses of the senders, and will decide the winners of the contest.

THE AMERICAN ARTISAN reserves the right to publish all photographs and descriptions submitted in this competition.

GOSSETT SUSPENSION HINGES.

Gossett Detachable Suspension Hinges are an important product of the F. D. Kees Mfg. Co. of Beatrice, Neb. While primarily designed for hanging wire window screens and outer storm sashes, there are many other situations wherein the hinge will apply fittingly. It is made of strong, heavy, pressed steel, and as is indicated in the accompanying illustration it is a convenient loose hook affair which permits a close interlocking by the weight of the suspended member. In window screens and storm sash practice, two or more of these hinges attached to the screen framing and to the window casing above hang the screen in a manner that provides positively tight fitting therefor but permits of its being lifted off and separated when desired or it may be altered in its position—though still suspended—to any desired angle that will leave any desired open space below for ventilation or for other purposes. The hinge is an ingenious and excellent device for its purposes.



Gossett Suspension Hinge.

In addition to the Gossett hinge the company offers among its new items for the hardware trade an accompanying window screen and storm sash fastener in substantial wrought steel construction, which is designed to govern the opening of either screen or storm sash for ventilation or for other purposes and to fix and sustain either of them firmly at any desired point These items are excellent hardware specialties, and by proper introduction by dealers should sell very rapidly. As indicating the growth of these hanger hinges the following figures of their sales are interesting. In 1904, 730 gross; in 1905, 950 gross; in 1906, 1,500 gross; in 1907 (10 months), 2,000 gross. Literature may be had upon application by addressing as above indicated. Kindly mention THE AMERICAN ARTISAN.

A TESTIMONIAL TO W. H. "POP" BENNETT.

A testimonial dinner was given in honor of Mr. W. H. ("Pop") Bennett on the evening of Friday, November 22, at "The Union," in Chicago. The event of the occasion was the formal presentation to Mr. Bennet of a magnificent hall clock as a testimonial of gratitude and esteem on behalf of admiring and grateful friends who made up the convention party that journeyed under Mr. Bennett's especial guidance to the October hardware conventions at Atlantic City upon the "Hardware Special" train and by steamer conveyance through the intricacies of a delightful journey. The testimonial offering happily came to the recipient laden with the well wishes of the entire party and every name appeared upon the record of its donors.

The gift is a wonderful affair, a magnificent creation of its kind and with it goes the wishes of its

W. H. "Pop" Bennett.

donors that its every beat as it ticks away toward the end of time may bring to its admired recipient added measures of comfort, peace and happiness.

The presentation was made by Mr. Charles Smith of the Charles Smith Co. of Chicago, in a crisp, bright and touching speech that warmed the hearts and quickened the pulses of the assembled party, as did also the speech of acceptance by Mr. Bennett upon receiving the rich and beautifully fashioned golden key. Then with the spirit of the occasion awake, individual testimonial offerings were made by friends in the assembled party. These included a series of unique and memory guiding photographic groups of friends and events as they were presented to view at Atlantic City during the hardware convention of October last. The series includes six subjects, tastefully arranged in a single rich framing. Other offerings were delicate, silky, perfumed papeteries, with tiny tracery perforations across their narrowest measurements, and made up in tastefully and ingeniously arranged pyramid forms that gave evidence of expert manipulation. A beautiful delicately mounted red corn cob was also among the gifts from admiring friends, and there were many others. A splendid dinner was spread, and with it and its accompaniments the evening was made a memorable and most enjoyable one. Mr. Daniel Stern acted in the dual capacity of toastmaster and general master of ceremonies.

THE GUESTS.

W. H. (Pop) Bennett, Lawson Mfg. Co., Chicago.
G. R. Lott, president Illinois Retail Hardware Association, Chicago.
J. H. Gormley, Bullard & Gormley Co., Chicago.
W. T. Gormley, Bullard & Gormley Co., Chicago.
F. E. Sorensen, L. S. & M. S. R. R., Chicago.
Chas. M. Hurst, Morehouse & Wells Co., Decatur, Ill.
Daniel Stern, THE AMERICAN ARTISAN, Chicago.
W. C. Stephens, P. & F. Corbin, Chicago.
H. A. Taylor, American Screw Co., Chicago.
D. W. Woodbury, Stanley Works, Chicago.
Charles Smith, Charles Smith Co., Chicago.
Richard Gedney, Yale & Towne Mfg. Co., Chicago.
Don McMillan, 40 Dearborn street, Chicago.
E. H. Lewis, Markham Air Rifle Co., Plymouth, Mich.
Ed. Smythe, Wiebusch & Hilger Co., New York.
Frank Gould, Henry Disston & Sons, Chicago.
D. A. Merriman, American Steel & Wire Co., Chicago.
Palmer W. Holmes, Lalance & Grosjean Mfg. Co., Chicago.
W. C. Dickey, Ward-Dickey Steel Co., Indiana Harbor, Ind.
Walter Birge, Fayette R. Plumb (Inc.), Philadelphia, Pa.

COLUMBIAN HARDWARE COMPANY.

Four very interesting catalogues by the Columbian Hardware Company of Cleveland, Ohio, and each of which relates to a separate department of the company's business, come to us in a single enclosure. One of these relates to the company's line of floor and other hinge specialties, all of which are in the high grade Twentieth Century type of goods that is so interesting and attractive. The accessories of the line which run to spiral door springs, iron rod door springs, "quick hitch" gate springs, door pulls, coat hooks, blind adjusters, etc., are all nicely illustrated and attractively presented. Another division of the company's work, which is along the line of warm air registers, register faces, borders and other things relating to the register business in side wall or other patterns, are shown under the title "Tu-bo" in a separate catalogue.

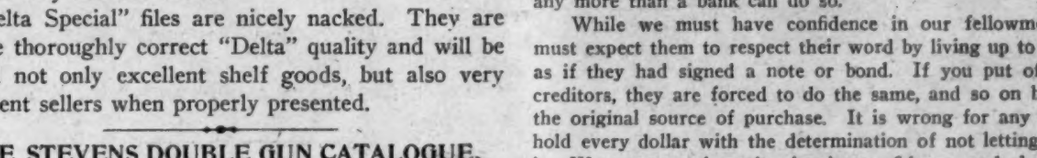
Vises and anvils and their several parts and in extensive variety under the "Original Trenton" title are made the subject of still another catalogue. Accompanying these, a volume relating to timber hangers, which goods are illustrated both in regular black printed engraving and also in very well executed blue print effect. The volume runs largely to tabular work

that is so essential to builders for whose ultimate use the goods here catalogued are intended.

The four volumes are all done in an exceptionally high order of the printer's, engraver's and embosser's art. They are all of them exceedingly rich and handsome catalogues, and their well-written texts and comprehensive arrangements give evidence of genius in the cataloguing department of the company's business.

"DELTA SPECIAL" FILE.

The Carver File Company, of Philadelphia, Pa., are offering a new file to the hardware trade in the form of a handy tool which they designate as the "Delta Special." "Delta Special" files are packed in neat boxes accompanied by four separate handles for different sizes and are adapted to so many purposes as to make them not only most desirable in homes, but also in various other situations where files are at all required. In homes their uses run to filing of knives and other implements and for these purposes the "Delta Special" will be found exceedingly convenient and serviceable. For carpenters' use, the "Delta Special" will be found a very ready filing instrument as the accompaniment of the handle precludes the necessity of making the handle or buying a handle that may or may not fit the file.



"Delta Special" File.

"Delta Special" files are nicely nacked. They are of the thoroughly correct "Delta" quality and will be found not only excellent shelf goods, but also very excellent sellers when properly presented.

THE STEVENS DOUBLE GUN CATALOGUE.

A new catalogue of very interesting character is now being distributed to the hardware trade under the title "Stevens Shot Guns." This book of reference is very attractively and artistically gotten up, in fact it is claimed that no catalogue in the firearm line surpasses it in its appearance and general arrangement, color and plate work, etc. This catalogue is especially intended for hardware and sporting goods merchants and will be sent to every such merchant in this country and the Dominion of Canada who is on the Stevens mailing list.

The claims made for this splendid production of the printer's and engraver's arts are fully justified by its appearance. No more graphic illustrations have come under our notice and from the embossed front cover, showing a bird in full flight across the green and gold decoration, to the back cover with its business-like flying wedge of wild geese, the catalogue is replete with interest.

Exceptionally valuable pages are those which illustrate in detail the methods of constructing Stevens double-barrel shotguns.

The complete Stevens Firearms Catalogue, containing more extended information regarding the Stevens double-barrel shotgun system, will be mailed upon application. When writing for either publication, kindly mention THE AMERICAN ARTISAN.

HAVE CONFIDENCE.

A letter of sterling worth comes from Mr. H. W. Avery, manager of the Avery Stamping Company at Cleveland, Ohio, the theme of which is HAVE CONFIDENCE. The apparent aim of Mr. Avery's communication is to inspire confidence, and there is little doubt that it will accomplish much in this very direction. It is a good, clean, wholesome, businesslike letter. It is as follows:

Cleveland, Ohio, Nov. 19, 1907.

To THE AMERICAN ARTISAN.

"Have Confidence." We believe this is good advice for all of us. We hope it may not be considered impertinent by any one, although it means that we will have to pay closer attention than ever to our knitting. Ninety-five per cent of all the business is done on credit, on confidence, but at the same time in our judgment should be conducted the same as banking. If your customers sign a note for thirty days they know that they cannot interpret it to mean *sixty* days, and they cannot get a loan at the bank without giving security, sometimes double the amount of the desired loan. Yet when you sell them some goods you get only their oral promise that the bill will be paid. Those goods represent your capital, consequently you cannot afford to allow it to be used without assurance that it will come back to you when due, any more than a bank can do so.

While we must have confidence in our fellowmen, we must expect them to respect their word by living up to it just as if they had signed a note or bond. If you put off your creditors, they are forced to do the same, and so on back to the original source of purchase. It is wrong for any one to hold every dollar with the determination of not letting go of it. We must speak, write, inspire confidence, and show our confidence by writing checks as our bills mature. A jingle occurs to us which we think happy and apt just at this time, we are putting it on our stationery, advertising matter, etc., with the caption, "Have Confidence": "Every little added to the little that you have, makes that little just a little bit more," and we think it will do much good if we adopt a confident air, which is half the fight in these days.

Yours respectfully,
THE AVERY STAMPING CO.,
H. W. Avery, Mgr.

THE HARDWARE PARCELS POST MOVEMENT

Hardware dealers throughout the entire country are becoming thoroughly well informed concerning the proposed United States parcels post measure that is soon to be brought to the notice of Congress with a view to securing its adoption. While all retail interests are displaying organized opposition to the measure the activity of the hardware interests of the country is pronounced. Just at present a campaign of correspondence is being waged by the National Retail Hardware Association and by the several state hardware organizations, through which, doubtless, the complete issue as relates to the proposed parcels post bill will be brought squarely to the notice of every retail hardware merchant in America with a direct appeal for personal influence in combating the meas-

ure in its entirety. As indicating the active work that is being done by the hardware trade the Iowa Retail Hardware Association has distributed to its members, embracing the retail hardware merchants of the state of Iowa, a stirring direct appeal to each one, accompanied by vigorous arguments in opposition to the measure by President Miles of the National Retail Hardware Association and by Secretary-Treasurer A. R. Sale of the Iowa Retail Hardware Association, to which there is appended a clear statement of the case issued by the National Retail Hardware Association as it relates to the retail hardware trade as a whole, and also a vigorous reply to the postmaster general's communication by M. L. Corey, secretary of the national association. The replies to Postmaster General Meyer, it should be understood, were brought out in a correspondence initiated by the postmaster general in letters by him to the officials named which invited direct criticisms of his proposed parcels post measure.

The communication by President Miles was published in full in the columns of THE AMERICAN ARTISAN on November 16.

The very vigorous literature that is being distributed in this campaign and the methods adopted by the various hardware associations, both state and national, give evidence of the crystallization of the retail hardware interests of America into a unified organization—a complete machine for the accomplishment of its ends, a wonderful power for upbuilding and protection.

The letter addressed to association members as it comes from the Iowa Retail Hardware Association is as follows:

Mason City, Iowa, Nov. 18, 1907.

To Our Members:

The mail order people are just at the present time rejoicing over their new champion, the Postmaster General of the United States. This distinguished gentlemen is filling the metropolitan dailies and the country papers with addresses and interviews, and keeping the government printing office busy in issuing copies of his addresses, which he is sending broadcast over the country to convince the people how much they need a Parcels Post System, and how he is going to benefit the farmers and the retail dealers by inducing Congress to pass such a law.

Hardware association members having helped to fight this proposition in several skirmishes, are fully posted on just who is to be benefited by this legislation, and just what it means to them; and now that the big battle is about to open, will not stand back, but will lend willing hands to help defeat this pet scheme of the catalogue people.

Write to your congressman AT ONCE! Get his pledge to oppose this measure. If possible, get a personal interview with him, and learn his position and tell us about it. Enclosed we hand you copies of letters written by your association officers. From these you will gather the general drift of the arguments against the proposed measures. We also give below a list of the Iowa congressmen. Write your men TO-DAY. If you do your full duty, you will write one or both of the Iowa senators.

In this crisis remember that every man's work counts. Get other merchants to write. Urge your local papers to denounce the proposed legislation.

Very truly yours,

P. C. DE VOL, President.
A. R. SALE, Secretary.

P. S.—Chas. W. Burrows of Cleveland, a recognized expert on the subject of our postal laws, will be at our Tenth Annual Convention in Cedar Rapids, February 18-21, to tell us his reasons for opposing a Parcels Post System.

STEVENS' SHOT GUN CATALOGUE.

A very handsomely executed and excellently planned and arranged catalogue of Stevens' shot guns comes to us from the J. Stevens Arms & Tool Co., of Chicopee Falls, Massachusetts. It is in oblong form, 5½ x 8 inches in size, with the leaves turning the long way. It contains sixteen pages exclusive of cover. The work is done upon heavy, extra glazed paper, and the text is printed in a brilliant blue. Large and most satisfactory photo half-tone illustrations, twenty in number, portray the catalogued guns most excellently in dense black and pretty black tracery borders with suggestive corner illuminations surround each page. The text is ably written; the descriptive features, which include weights, gauges, measurements, ammunition requirements and also prices, are concise, comprehensive, convenient and interesting. The cover is in cream toned, heavy, linenized paper, and the exterior of the front, besides a distinct title in gold and black, carries a central illumination in green, black and gold, in which a flying duck is made a prominent figure. It is a pretty catalogue and may be had upon application. In writing, kindly mention THE AMERICAN ARTISAN.

OBITUARY.

Jasper Van Wormer.

Jasper Van Worner was a retired stove manufacturer. He was among the older stove manufacturers of the country and was for many years prominent in the industry. He died at his home in Albany, N. Y., on Nov. 4. He was born near Crane's Village, Montgomery Co., New York, on May 23, 1822, and had resided in Albany since 1843. For a number of years he was in the employ of the New York Central Railway Co.

Andrew Johann.

Andrew Johann, for many years prominently known in connection with the hardware and builders' hardware trade of Philadelphia, Pa., died at his home in Philadelphia on November 13 at the age of 79 years. Mr. Johann was born in Bavaria in 1829 and came to this country in 1840.

Gilbert B. Watrous.

Gilbert B. Watrous, who has been engaged in the hardware business at Waukegan, Ill., for a period of nearly fifty years, died at his home in Waukegan on November 17. He left a widow and four sons. One of the sons, Mr. Chas. Watrous, is the present postmaster of Waukegan, Ill.

Royal Earl Deane.

Royal Earl Deane, who was president of the Bramhall-Deane Co., manufacturers of steel ranges in New York city, died at his home in New York city on November 8. Mr. Deane at the time of his death was 77 years of age and was a member of the New England society and other clubs.

Harry E. Fairman.

Harry E. Fairman, for many years well and favorably known among Philadelphia stove people through his long connection with Heath Stove Repair Company of Philadelphia, died in Philadelphia on November 8.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

This department is more or less regularly in receipt of communications from retail hardware men in which information is sought relating to newspaper advertising methods suited to the uses of retail hardware men. Such information as is at hand or as may be procured by us is always at the disposal of inquirers along these lines. It may be said also that this department is quite frequently in receipt of communications conveying the thanks of the writers for improvements that have been made in their local newspaper advertising through inspiration received from this department. Naturally this is very gratifying to us.

The advertisement of W. G. Sundstrom of Iron Mountain, Mich., is a very creditable example of local

steel range advertising. The engraving is well suited for the amount of space utilized and the printing thereof upon the class of paper used is very much better than it would have been if a fine half-tone had been used. The one used is line work, and in ordinary rough printing it will give good results where finer work would utterly fail. The text of the work is very well written. Sufficient has been said both to recommend and to invite, and that is all that is necessary in cases of this kind. The type selections and arrangement are pleasing. The rule enclosing in connection with the white space that follows it all around the ad. strengthens the body matter very materially. It is a very satisfactory advertisement. In its original form it occupied a space of seven inches double column, in the Daily Tribune Gazette of Iron Mountain, Mich.

The advertisement of P. C. De Vol Hardware Co. of Council Bluffs, Ia., is in itself a good strong advertisement and the printer who put the matter into shape has done very well by it. The brief descrip-

tion of the stove tells a good story of it in a small amount of space and is well located. The paneled matter beneath this being rather open does much to strengthen the effect of the advertisement in a general way. The enclosing curved cornered rule has been made strong enough to admit good strong type catch lines into its body measurement with good effect. The illustration is too fine in its engraving for this class of printing. It would have been much better if ruled much coarser. The arrangement of the advertisement is very acceptable and we think it should have proved very attractive. In its original form this advertisement occupied 5¾ inches, three columns wide, in the Evening Nonpareil of Council Bluffs, Ia.

The advertisement of C. J. Stegemiller & Co. of Rising Sun, Ind., although quite a modest one as to size has been very well handled by the printers who put it into type, hence the type selections and the arrangement are altogether consistent. The subject matter of the advertisement presents two propositions —one is that there is a new hardware store in town

THE NEW HARDWARE STORE,

Thanking you for past favors, asks for your patronage in the future, for

Hardware, Cutlery, Buggies and Harness.

C. J. STEGEMILLER & CO.

and the other is that the firm is thankful for the patronage it has already received. To this extent is it quite an agreeable announcement, but we think it would have been improved if the second and third lines, which contain the acknowledgment and solicitation, had been worked out to express the same sentiments in a little more original language. The advertisement as originally printed occupied a space of 1½ inches double column in the Rising Sun Recorder of Rising Sun, Ind.

Heating and Ventilating

HEAT AND VENTILATION IN MINNESOTA HIGH SCHOOLS.

In a recent report Mr. George B. Aiton, state high school building inspector for Minnesota, includes among other things that are under his supervision in the schools some valuable information relating to their heating and ventilation and the changes and progress that have been made therein. Among other things he calls attention to the fact that stoves have almost entirely disappeared from the high schools of the state. He reports that of the 192 high schools in Minnesota, three employ hot water, twenty-three use furnaces and the remainder have installed steam plants. The average annual cost in fuel for twenty buildings examined in this respect was $45.34 per teacher.

As compared with heating facilities, however, ventilation has made but little progress. Forty-six schools have a fan system. In the remaining buildings the most common device is a heated foul air shaft, depending for the supply of fresh air on window ventilation to a great extent. Over half of the high schools rely on the windows almost entirely.

Mr. Aiton states frankly that the general subject of ventilation is not well understood and that the prevailing window ventilation is unsatisfactory. Much sickness among school pupils may be traced to colds caught from open windows. So far as cost of fuel goes, the plan is the most expensive of all ventilation. The heat which escapes through open windows might easily warm twice as much pure air if properly managed with a fan system.

Where a fan system is not likely to be installed, Mr. Aiton makes several suggestions for improving the efficiency of the existing conditions. He recommends:

1. The windows should be closed, except in the warmest weather.

2. An intake should be provided equivalent to half the sum of space usually provided by opening windows.

3. The fresh air should be warmed in a basement chamber before it reaches the rooms, or else it should be permitted directly upon the steam radiators.

4. Each room should be provided with a large foul air escape kept hot by means of a steam radiator. A single turn of a long pipe answers.

5. The fresh air chamber and the foul air escapes should be heated in all but the warmest weather. Even in the case of fan ventilation provision should be made to run the fans in mild weather by an independent engine.

In concluding, Mr. Aiton says:

"Before leaving the subject, it should be stated that architects are much to blame in the matter of ventilation. Some who pretend to plan school buildings do not know what ventilation means. Others, in order to cut down estimates, persuade boards of education to fall in readily with the idea that some gravity system is just as good as the fan, and that it costs less. In my observation, the average architect is much more anxious to obtain an award than he is to plan with a view to comfort and convenience. Our school houses are not planned as well as our stores, hotels and court houses. The state is much in need of architects who will make a special and an intelligent study of this branch of their business. Boards of education build but once, and do not have opportunity to profit by experience. I think it would be a good idea for the state to employ a supervising architect, to whom the plans of all public buildings should be submitted for final approval."

PLAIN RADIATORS.

The Kellogg-Mackay Cameron Co., heating engineers and heating apparatus supply manufacturers of Michigan avenue and 12th street, Chicago, call particular attention to the fact that they offer "plain radiators." This of course is not intended to imply that they have only plain radiators for as a matter of fact the company's radiator line includes a large and varied assortment running in many patterns and including many types of radiators from the most artistically decorated to the absolutely plain ones which are here brought into discussion. Plain radiators are, however, distinctly desirable for many ordinary and for many very special purposes and no doubt it is for this reason that the company calls attention to them in so direct a manner. In addition to their radiator department the company is prepared to supply hot air, hot water, and steam heating equipments in extensive varieties and of the most desirable and popular types. Their catalogue gives complete information as to the nature of the heating work they are doing. It may be had upon application by addressing them as above indicated. When writing kindly mention THE AMERICAN ARTISAN.

PARAGRAPHS.

The Walworth Run Fdy. Company of Cleveland, O., is building a large addition to its plant. The new premises will be 50 x 170 feet and four stories high. The register and the casing ring department will be housed in the new quarters as soon as completed, which will be about the first of the year. The addition has been made necessary by the rapid growth of the register and casing ring department.

The Wise furnace by the Wise Furnace Co. of Akron, Ohio, is one of those heating devices that require little effort and explanation to make it understood and to make customers for it, for the reason that while wholly practical and efficient it has nothing of the mysterious or complicated order about it. Nothing that will make a user guess whether he is working the thing right or wrong, and notwithstanding all this it is up to the line in necessary modern equipment and appointments. It has always been a good seller and always will be, no doubt.

The Stone Hardware Co., of Shawnee, Okla., is engaged in remodeling its store room.

Tinshop

WHAT A SHEET METAL WORKER SHOULD KNOW.

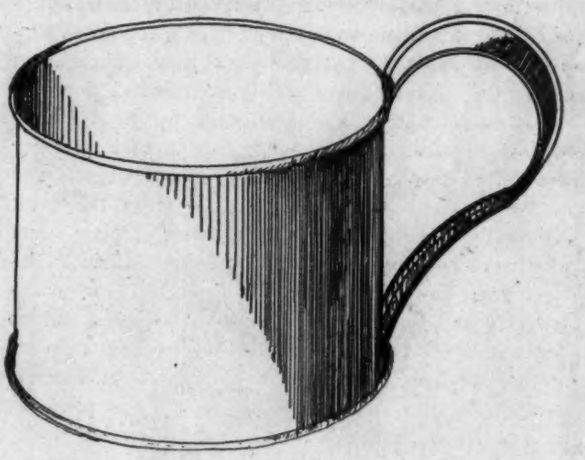
BY H. E. OSBORNE.

No. 20.

A Deflected Snap Bottom.

A snap bottom may often be used on small articles of tinware, instead of a double seamed bottom, and given a deflection in the "setting down machine." Cups, dippers, small basins and other small vessels may be made in this manner, quickly and neatly.

Burr the bottom of body out nearly as much as for



Section of Bottom.

a double steam, and perhaps just slightly wider. Not too wide, however.

Cut and burr the bottom so it will go on pretty snug, and run it in the setting down machine, holding the article up enough to begin to just start a deflect in the bottom, and continue to raise gradually until the seam is at an angle of about 45 degrees, as shown in the section of bottom underneath the cup, in drawing.

With very little practice, and a good setting down machine, this can be done very quickly, and makes a neat job.

A double seamed bottom can also be deflected in the setting down machine, if it is a very small seam, and pretty smoothly finished, and not too tight. If the seam is small enough to allow of starting it between the wheels of the machine, and care is used in handling the work, quite a neat looking deflect may be made.

TIN ROOFERS' HAND BOOK.

"The Tin Roofers' Hand Book," issued by the National Association of Master Sheet Metal Workers of the United States, is a textbook for the instruction and guidance of roofers, sheet metal workers, and their apprentices. It is being distributed free of charge by the association and it is the association's wish that the distribution of the volume should be as complete as is possible among those interested in the topic to which it relates. The purpose of the work is to definitely and correctly instruct roofers in the proper methods of making and laying tin roofs, a subject to which the association has given much careful attention and to which cause much intelligent opinion and practical experiment has been devoted by the most highly regarded practical working experts of America. The "Hand Book" is a thoroughly complete tin roofers' compendium. The text is well written and well arranged, and the fact that it comes from so masterly an authority makes it, it would seem, wholly indispensable. The work is replete with progressive illustrations of the correct method of proceeding with tin roofing work and also of the tools and appliance required therefor. It gives an historical sketch of tin roofs and roofing, states the advantage of good tin roofs, offers a modern system of standard working specifications for tin roof work, in which illustrations of twentieth century methods for flat seam and standing seam work are fully illustrated in its every operation, and also includes a good line of practical tin roofing hints with numerous illustrations that would seem invaluable. It is a distinctly valuable work. It comes from the exact working experience of some of the best working tin roofers in the world, and, moreover, it costs nothing but the asking. It may be had sent postpaid by addressing Edwin L. Seabrook, president, 2313 Chestnut street, Philadelphia, or THE AMERICAN ARTISAN, 69 Dearborn street, Chicago. In either event kindly mention that you saw this item in THE AMERICAN ARTISAN.

SOLDERING PASTE.

Soldering paste has come into extensive use in electrical work as a flux for soldering, says the Brass World. This has been brought about by the requirements of the electrical trade that in certain forms of soldering no acid shall be used. For soldering copper wires for electrical conductors, soldering paste is almost exclusively used. It has also entered other fields of soldering, particularly in instances where spattering and corrosion are objectionable. Soldering paste which is now used in the electrical trades consists of a mixture of a grease and chloride of zinc. The grease which is commonly used is a petroleum residue such as vaseline or petroleum jelly. Such a material is about right in consistency. The proportions which are used are as follows: Petroleum jelly, 1 pound; saturate solution chloride of zinc, 1 fluid ounce.

PATTERNS FOR OVAL ELBOWS.

TO THE AMERICAN ARTISAN:

The following drawing and description is submitted in reply to elbow query by C. E. A. in your issue of November 16:

Figures 1 and 2 show the profile and patterns for two-piece 90-degree oval elbows.

Figure 1 shows the elbow made the long way of

the oval while Fig. 2 shows the elbow made the flat way of the oval.

An oval elbow is made by the same method as an ordinary round elbow. The only difference is that instead of making a round plan as required for a round elbow, the plan is made oval the size and shape required. Half plan is all that is required, as shown in Figures 1 and 2. The half plan is spaced into any convenient number of spaces and lines drawn from all points in plan intersecting miter line. Next, lay out the stretch-out lines for pattern, taking twice the number of spaces as in half plan, 1 to 11. Then draw lines from all points in miter line B intersecting lines of corresponding numbers in pattern; then draw lines through the intersecting points, which will give the pattern required.

G. L. GRAY.

New York City.

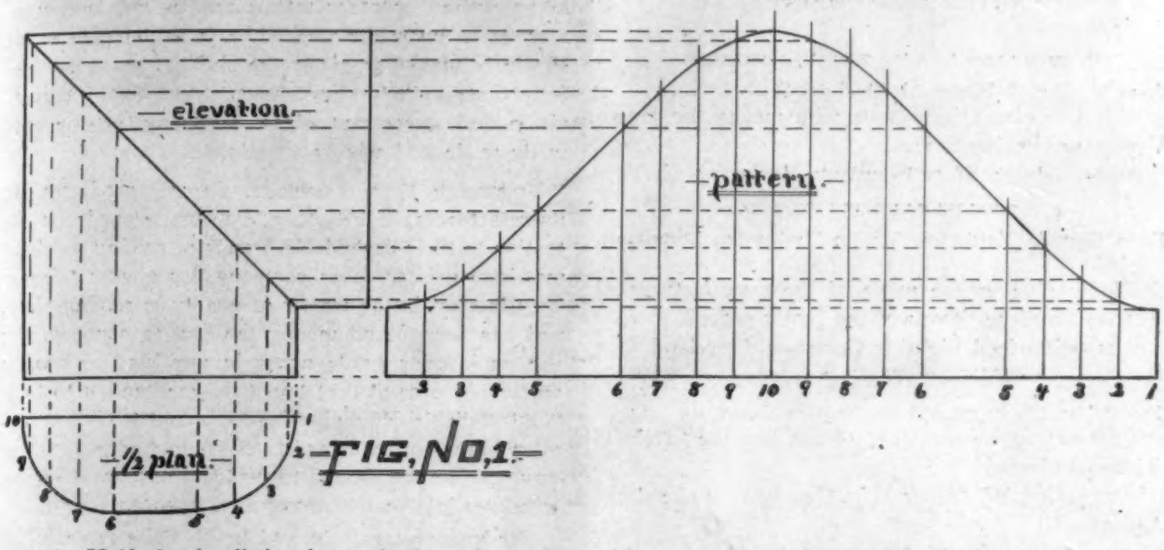


FIG. NO. 1

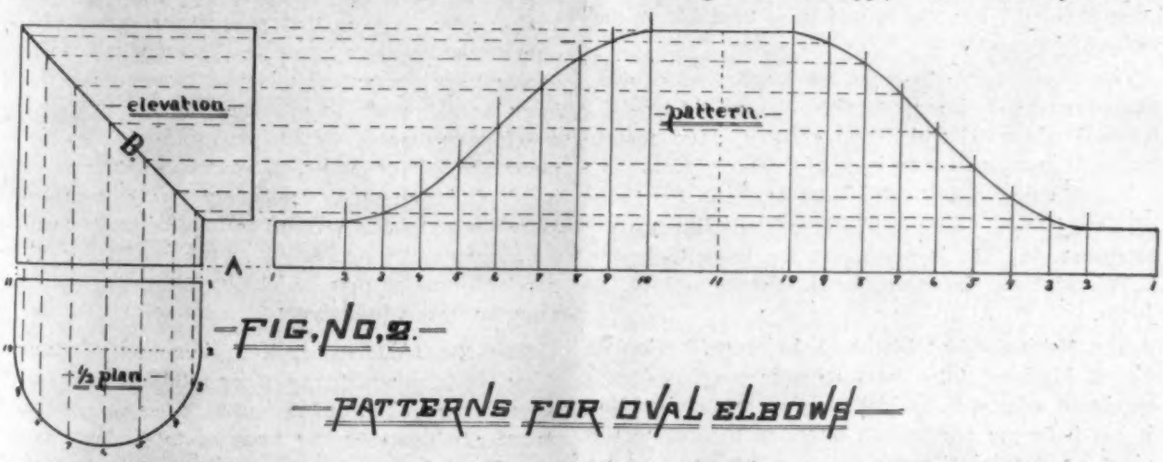


FIG. NO. 2

PATTERNS FOR OVAL ELBOWS

METAL CEILINGS IN TURKEY.

U. S. Consul E. S. Harris, writing from Smyrna in regard to the possibilities of a market for metal ceilings in Asiatic Turkey, says:

"No metal ceilings have as yet been set up in Smyrna, but a large hotel now building has imported some, which, though of American origin, were purchased in France. I am informed that within the past year or so metal ceilings have been fitted in a few houses in Turkey and that they were greatly admired. I am of the opinion that there is a market here for metal ceilings, especially as they would be less likely to be damaged by the many slight earthquake shocks to which this region is subject than are the plaster ceilings now in general use.

"American manufacturers of this article who may wish to introduce their wares in this section should bear in mind that their first efforts must be accompanied with a great deal of patience and perseverance, as innovations in this country are not taken to enthusiastically. My experience tells me that the most satisfactory method to make a start would be for a traveling man to come out and talk up the article with the leading builders' supply houses in Smyrna until he succeeds in securing a trial order from one of them. Generally this first step proves sufficient to start all the other local dealers of similar wares and a beginning is thus made. To endeavor to attain the same result through catalogues and correspondence would not only mean a great loss of time, but it often leads to the disagreeable result of putting on the scent European manufacturers, who are at present better situated for trading with the Levant.

"During a recent visit to Constantinople I was shown some metal ceilings in the residence of a gentleman who imports certain lines of American goods. He said that metal ceilings were meeting with favor, especially with the Turkish officials of the better class."

FELLOE OILERS WANTED.

Will some subscriber advise us where we can buy galvanized corrugated felloe oilers?

Luthe Hardware Co., Des Moines, Ia.

NOTES AND QUERIES.

HOWE VENTILATOR HEATING STOVES.

From Kundert & Fitzgerald, Madison, S. D.

Will you please inform us who makes the Howe Ventilator Heating Stoves?

Ans.—Galusha Stove Company, Rochester, N. Y.

PROCESS GASOLENE STOVES.

From Flanegin Hardware Co., 310 Market St., Logansport, Ind.

Kindly give us the name of the manufacturer of Process Gasolene Stoves of the junior order?

Ans.—Standard Lighting Company, Cleveland, O.

"HELPER" TINNERS' FIREPOT.

From John Black, 159 92d St., South Chicago, Ill.

Can you advise me where I can buy the "Helper" Tinners' Firepot?

Ans.—Geo. W. Diener Mfg. Co., 77 W. Lake street, Chicago, Ill.

ITEMS.

The Delphos Mfg. Co. of Delphos, Ohio, manufacturers of patent oil cans and galvanized iron specialties, will establish a plant in the West.

A recent fire in Portsmouth, Va., destroyed the stove, plumbing and tinning establishment of Whitehurst & Riley. The loss is said to be total and in the vicinity of $10,000.

The Queen City Roofing Company of Cincinnati, Ohio,was recently incorporated by Ralph C., Lewis E., Edith D., Emma E. and Fred L. Mirick. The capitalization is arranged for an issue of $100,000 stock.

The Youngstown Roofing Tile Machine Company of Youngstown, Ohio, has incorporated with $50,000 capital stock. The incorporators are John R. Squire, C. W. McNab, C. Thornton, H. Turner and W. B. Jones.

The Marietta plant of the U. S. Sheet & Tinplate Co. at Marietta, Ohio, was recently purchased at a receiver's sale by A. D. Follett. We are advised that it has been the purchaser's intention to operate this plant for its original purposes, but no action as yet has been taken in this direction.

J. G. Walker, who recently established the galvanized iron business in Toronto, Ont., has built a new galvanized front for his place of business. Mr. Walker represents the English manufacturers of the Arrow brand of galvanized iron and is also agent for a line of galvanizing vats and other articles relating to sheet metal affairs.

"Did It Pay," is the title of an interesting booklet issued by the Pritchard-Strong Company, of Rochester, New York. It relates to the company's recent window contest and contains illustrations of a large number of the windows in photographic form. The booklet will be found very interesting to anyone in the trade, and especially interesting to those who are giving thought to the subject of window decoration.

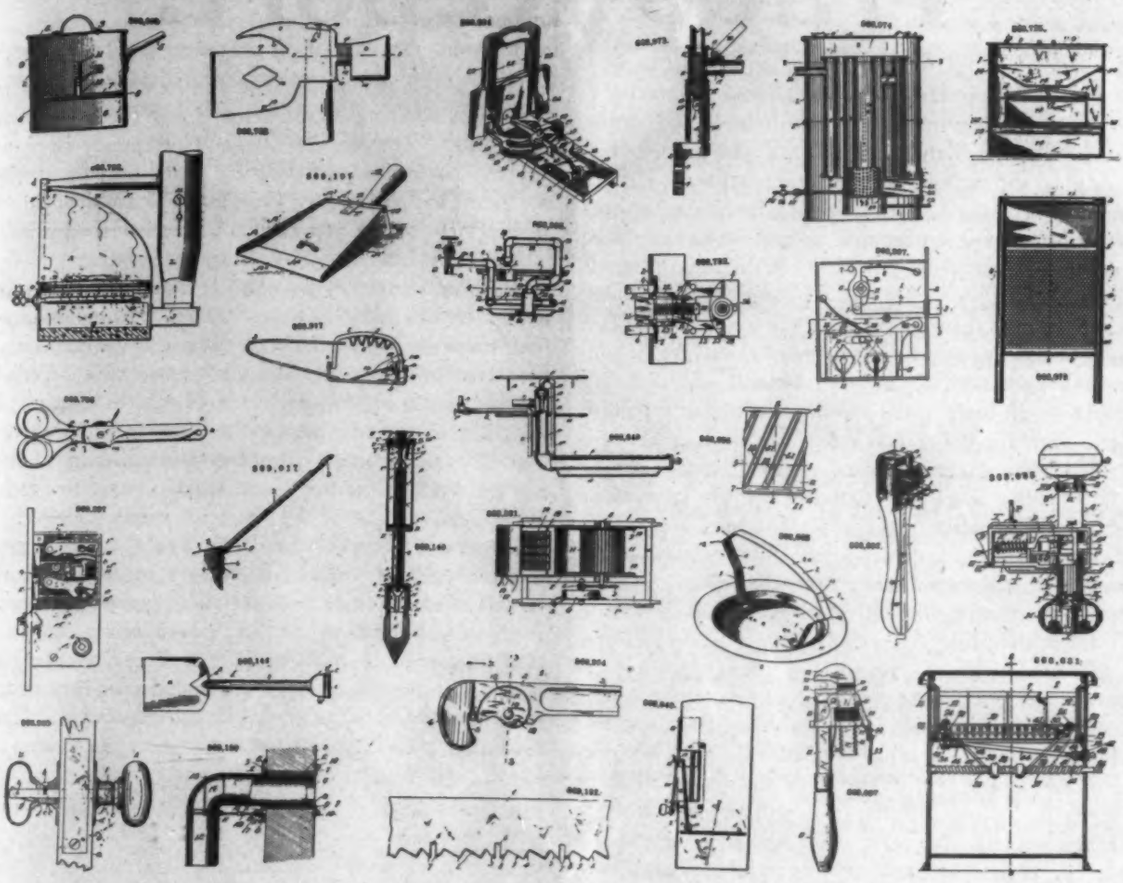
F. O. Schoedinger of 146 North Third street, Columbus, Ohio, manufacturers of cornices, ridge roll, metal ceiling, eaves trough, conductor pipe, etc., is also extensively engaged in the manufacture of skylights in galvanized or other metals and in such forms as may be in quantities desired. As is the case in all of the Schoedinger goods the skylight work is carefully done by expert workmen under expert supervision and is guaranteed to be strong, artistic correctly made and wholly unleakable.

Follansbee Bros. Company, tin and roofing plate manufacturers, of Pittsburg, Pa., invite particular attention to their dependable brands of roofing sheets at moderate prices. This company has always taken a keen interest in the matter of quality in roofing plate, and has been found among the first to condemn the use on inferior grade plates in any kind of roofing work. At present they are inviting attention to their "Old Reliable Re-dipped" Scott's Extra Coated and other brands of roofing plate of the highest order. The company will be pleased to furnish their literature and whatever information is required upon application.

For many years past and up to quite recently the world has been on the look-out for some efficient means by which aluminum might be perfectly joined by soldering. Just like many mysteries of long standing that have preceded it the aluminum soldering mystery has been solved and a process and materials therefor has been placed openly at the disposal of those who may and will require it. The Aluminum Solder & Refining Company of Oswego, New York, give notice that they are prepared to offer to the hardware trade an aluminum solder which is absolutely guaranteed to solder aluminum to aluminum or aluminum to other metals in a strong and satisfactory manner. Aluminum solder is also highly recommended for perfecting imperfect aluminum castings. It is put up in convenient form for hardware store sales and has become an item of trade popularity among hardware dealers. Prices and other necessary information may be had by addressing the company as above indicated.

The Niagara Machine & Tool Works, of Buffalo, New York, is among the older establishments of the kind in the United States, and as it has enjoyed many years experience in the business to which it is devoted and been in intimate connection with tinners, roofers and sheet metal workers generally as relates to their requirements in the way of sheet metal tools, necessarily thoroughly well equipped in the knowledge necessary to produce most efficient and correct sheet metal working tools for all the many regular and peculiar uses of the sheet metal working class including shears, punches, presses and dies, can making machinery, tinners' and roofers' tools and implements and many other specialties running along the same lines. Sheet metal workers generally and roofers in particular should avail themselves of the opportunity to secure a most desirable catalogue covering the field here indicated by addressing the company at the above named location.

NEW PATENTS.



868,631—Stove grate. Robert E. Adams, Fort Wayne, Ind., and Christ Hoffman, Farmington, Minn. Filed Feb. 15, 1907. Serial No. 357,594.

868,634—Miter box. Ledru R. Bender, Elizabethville, Pa. Filed March 25, 1907. Serial No. 364,456.

868,649—Burner attachment for stoves. Harvey N. Crossley, Madison, Okla. Filed March 19, 1907. Serial No. 363,225.

868,652—Wrench. Calvin V. Friend, Porterville, Cal., assignor of one-half to George D. Avery, Porterville, Cal. Filed May 20, 1907. Serial No. 374,655.

868,665—Flue-stop. George A. Higgins, Galesburg, Ill. Filed Aug. 27, 1906. Serial No. 332,181.

868,679—Washboard. Frederick Martin, Columbus, O. Filed March 10, 1906. Serial No. 305,221.

868,685—Combined lock and latch. Levin H. Mullikin, Trappe, Md., assignor to P. & F. Corbin and Russell & Erwin Manufacturing Company, New Britain, Conn., Corporations of Connecticut. Filed May 22, 1906. Serial No. 318,151.

868,706—Shears. Frederick W. Schepman and James M. Teamer, Evansville, Ind., assignors of one-third to John Dersch, Evansville, Ind. Filed July 21, 1905. Serial No. 270,670.

868,725—Ash sifter. Nic Theisen and Peter Becker, Port Washington, Wis. Filed Aug. 10, 1906. Serial No. 330,038.

868,733—Compound tool. George F. Walker, Arroyo, Pa. Filed Jan. 21, 1907. Serial No. 353,297.

868,753—Gas broiler. James A. Barrett, Milwaukee, Wis. Filed May 31, 1906. Serial No. 319,455.

868,782—Lock and latch. John Hiltpold, New Britain, Conn. Filed May 8, 1906. Serial No. 315,788.

868,831—Washing machine. Irving L. Anderson, Edmonds, Wash. Filed Feb. 18, 1907. Serial No. 358,070.

868,895—Sheet metal receptacle. Charles H. Stephenson, Lynn, Mass. Filed July 3, 1905. Serial No. 268,245.

868,917—Animal-trap. Thomas H. Donlon, Syracuse, N. Y. Filed Jan. 28, 1907. Serial No. 354,446.

868,925—Lock for door-knobs. Edward A. Hine, Newark, N. J. Filed May 3, 1907. Serial No. 371,730.

868,897—Lock. Henry G. Voight and Charles J. Caley, New Britain, Conn., assignors to Russell & Erwin Manufacturing Company, New Britain, Conn., a Corporation. Filed Feb. 16, 1907. Serial No. 357,696.

868,940—Stovepipe attachment. Lewis Reaser, Reading, Pa. Filed Jan. 2, 1907. Serial No. 350,483.

868,954—Wrench. William H. Whittemore, East Orange, N. J., assignor to Strieby & Foote Co., a Corporation of New Jersey. Filed Oct. 15, 1904. Serial No. 228,498.

No. 868,955—Hydrocarbon-burner. Wilhelm H. Wilhelmy, Nebraska City, Neb. Filed Mar. 26, 1907. Serial No. 364,716.

868,973—Self-closing hinge. George A. Datscheg, Philadelphia, Pa. Filed Dec. 3, 1906. Serial No. 346,074.

868,974—Heating-furnace. Henry A. Denzin, Ross township, Allegheny county, Pa. Filed Nov. 22, 1906. Serial No. 344,532.

868,997—Lock. Peter H. J. Krulder and Peter Krulder, Jr., New York, N. Y. Filed May 11, 1907. Serial No. 373,023.

869,017—Sheet-metal handle. Charles F. Pfalzgraf, Baltimore, Md. Filed June 19, 1906. Serial No. 322,397.

869,097—Wrench. David Mandl, New York, N. Y. Filed Mar. 20, 1907. Serial No. 363,354.

869,099—Steamer. Thomas Matteson, Armbrust, Pa. Filed Mar. 21, 1906. Serial No. 307,210.

869,140—Self-heated soldering-iron. Willis Mitchell, Malden, Mass. Filed Dec. 9, 1905. Serial No. 291,147.

869,144—Sheet-metal shovel John C. Ross, Elyria, Ohio, assignor to the Ross Stamping Company, Elyria, Ohio, a Corporation of Ohio. Filed Mar. 9, 1907. Serial No. 361,574.

869,180—Stovepipe attachment. Harry Heffner, Warren, Ohio. Filed Apr. 6, 1907. Serial No. 366,801.

869,182—Crosscut-saw. Joseph V. Hotchkiss, Webster City, Iowa, assignor of one-half to Christian F. W. Buente, Webster City, Iowa. Filed Jan. 29, 1907. Serial No. 354,709.

869,197—Dust-proof dust-pan and crumb-tray. Lewis Prideaux, Philadelphia, Pa., assignor, by direct and mesne assignments, of one-third to August Fertig and one-third to Charles A. Blumhard, Philadelphia, Pa. Filed Mar. 25, 1904. Serial No. 200,012. Renewed Mar. 21, 1907. Serial No. 363,745.

Trade Report.

HARDWARE.

Notwithstanding the money disturbances and all the talk of destroyed confidence, the hardware market continues good throughout the west and northwest. Orders are small, as a rule, it is true, but their greater frequency brings the aggregates up quite well and there seems little, if any, real depression in the line. Traveling men report poor sales and a falling off in business, but this has for them its reason to an extent in the fact that retailers are not laying in stocks, but are buying conservatively and, to a great extent, are ordering direct by mail in frequent small quantities to replenish stocks that are being taken out for cash by the unterrified farming communities. Prices continue strong and the belief is general that the slightly pessimistic feeling will speedily pass away. In many sections of the country there have been keen cold spells and heavy snows, and it is noted that in these sections hardware has become thoroughly active and stoves have been in inordinate demand. Texas has been a fitting example of this condition. There are few changes to note in hardware prices or discounts. Poultry netting is now quoted, For galvanized, before weaving, 80, 10 and 5; galvanized, after weaving, 80 and 10. Sash weights are at $26.50 per ton. Wire nails are quoted at $2.23 car lots to jobbers, $2.28 car lots to retailer, with 5c advance for less than cars. Smooth fence wire is still in strong request at $2.08 car lots to jobbers and $2.15 to retailers. Cut nails are quoted, for iron cut, to jobbers $2.38, car lots; to retailers, $2.43; steel cut, to jobbers, in car lots, $2.38 and to retailers at $2.43.

TIN PLATE.

The tin plate market continues to present a quiet appearance, and business in progress is not of large proportions, and is much smaller than is usual for this season of the year. Present quotations are $3.90 f. o. b. Pittsburg, with $3.85 still quoted by the independent mills. Price f. o. b. Swansea for tin plate is 13s 4½d. Arrivals of tin plate for the week ending Nov. 9 were 29,550 boxes at New York. Stocks of tin plate in Swansea on Oct. 24 were 192,430 boxes, against 147,505 at the same time a year ago.

For prompt shipment, f. o. b. mill—

Coke tins, 14x20, I. C.	$4.05@$4.10
Coke tins, 14x20, 100 lbs	3.90@ 3.95
Coke tins, 14x20, 95 lbs	3.85@ 3.90
Coke tins, 14x20, 90 lbs.	3.80@ 3.85
Charcoal terne, 20x28, I. C.	7.50@ 7.55
Charcoal terns, 20x28, 200 lbs.	7.20@ 7.25

Usual differences for odd sizes and weights.

COPPER.

The copper market continues to maintain a dull and uninteresting outlook. There is some business in progress about on the basis of 13c for electrolytic, but it is estimated that the total volume of copper moving into consumption throughout the country is hardly up to the reduced output of the mines. The movement to Europe and other foreign points is still of good proportions, but there is very little real improvement in the world's markets. The copper that has gone abroad is, in the main, still in stock, and can be easily moved to any point where a slight demand for the metal may spring up. The imperative need of money in some quarters has caused the pressure to sell the metal, with the result that prices in all the markets are kept down, and in view of the fact that not only has the business of the manufacturers of finished material greatly decreased, but that they have a large stock on hand, are by no means anxious to contract for supplies other than those needed to fill contracts already in hand, with the result that producers, in order to work off their surplus stock, are obliged to shade prices continually in order to do any business whatsoever. The New York Metal Exchange quotations were unchanged during the week at 13c to 13¼c for lake, 12¾c to 13c for electrolytic and 12½c to 12¾c for casting copper.

Exports of copper from New York and Baltimore were 2,672 tons, making a total of 19,536 tons since Nov. 1. The Mesaba brought about 300 tons of matte from London to New York. The apparent consumption of copper in the United Kingdom, according to board of trade returns for the first ten months of the year, is given as 56,544 tons, as compared with 61,212 tons during the same period a year ago.

Extreme fluctuations for this year:

	Highest.	Lowest.
Electrolytic copper, spot	25½	11¾
Lake copper. spot	25¾	12⅛
Casting copper, spot	24½	11⅝

SHEETS.

No general reductions are noted in sheet quotations. though there are authentic statements that to an extent the market is undersold on certain lines of sheets The Pittsburg market is reported slow and to an extent weak. The principal shading is on black sheets, though it is asserted that jobbers are shading on blue annealed and galvanized in efforts to liquidate stocks.

The following prices are for 500-bundle lots and over, f. o. b. mill:

		—Galvanized—	
Gauge.	Net.	Net.	List.
No. 30	2.85	4.25	21
No. 29	2.75	4.00	19
No. 28	2.60	3.75	17
No. 27	2.50	3.55	16
Nos. 25 to 26	2.45	3.35	15
Nos. 22 to 24	2.40	3.15	14

SHEET ZINC.

Demand for sheet zinc is of small proportions, business being of a more or less routine character. Prices are steady on the basis of $7.50 per 100 pounds f. o. b. smelter, with 8 per cent discount. There is no charge for extras. Prices on cask lots are held at $7.55 to $7.65 per 100 pounds.

ALUMINUM.

The market for aluminum continues steady, with a fair amount of business noted. The situation continues to present a seasonable appearance, with quotations firmly held by leading producers. No. 1 ingots for remelting are offered at 45c to 47c per pound in ton lots, and No. 2 ingots at 43c to 45c in car lots for 90 per cent pure.

IRON BARS.

There has been a falling off in the iron bar business recently, and trading is not of large proportions, being confined chiefly to small lots for immediate shipment. Prices are firmly held at $1.76 to $1.81 tidewater. In Pittsburg there is a good business in small lots for prompt shipment, and prices are firm at $1.60 to $1.65.

COKE.

Business in both foundry and furnace coke continues of good proportions. Foundry coke is pretty well cleaned up in the producing districts, and quotations cannot be shaded. Some good sized inquiries are reported in the market for furnace coke, and a good business is being put through. Prices remain about on the basis of $3.25 to $3.50 for good grades of 72-hour Connellsville foundry, while furnace is about on the basis of $2.30 to $2.50 for prompt shipment, and about $2.20 to $2.30 for nearby delivery.

PIG IRON.

Pig iron is in a state of commercial coma as it has been for many weeks past. Prices are purely nominal, as there are not sufficient sales to make a market upon. Added to the hand to mouth existence the market has been leading of late, the financial disturbances have seemingly extinguished the spark of hope that has kept the market alive at all. Prices do not change because there is no inducement to change the figures. Many furnaces have gone out of commission wholly and a general reduction of output will necessarily ensue.

There are reports of measures being canvassed among furnace men to reduce the cost of production, either by reducing the cost of labor or by decreasing the cost of ore, but what direction the movement may take it is impossible to tell. Quotations, without definite changes, remain as follows:

CHICAGO MARKET.

Lake Superior Charcoal	$25.50@26.00
Northern Foundry No. 1	21.00@21.50
Northern Foundry No. 2	20.00@20.50
Northern Foundry No. 3	19.50@20.00
Southern Foundry No. 1	20.85@21.35
Southern Foundry No. 2	20.35@20.85
Southern Foundry No. 3	19.85@20.35
Southern Foundry No. 4	19.35@19.85
Southern No. 1 Soft	20.85@21.35
Southern No. 2 Soft	20.35@20.85
Southern Gray Forge	18.85@19.35
Southern Mottled	18.35@18.85

PITTSBURG MARKET.

No. 2 Foundry	$19.40
Grey Forge	18.40
Bessemer	19.90
Basic	18.90

BIRMINGHAM MARKET.

No. 1 Foundry	$17.50@18.00
No. 1 Soft	17.50@18.00
No. 2 Foundry	16.25@16.75
No. 2 Soft	16.25@16.75
Gray Forge	14.00@15.00

Matthew Addy & Co., Cincinnati, will say in their weekly report:

The market is in a state of suspended animation. A few car loads and an odd lot now and then are being sold and that is the extent of the new business. Yet shipments are still being made from the furnaces at a good rate on old contracts. Were it not for these old orders the furnaces would be in decidedly bad shape. As it is, however, very little iron has been piled on furnace yards and there has been a general understanding among iron masters that unsold iron is not to be accumulated.

It is difficult to get at the exact facts regarding consumption. It is certain that production has been enormously decreased. Furnaces have been blown out literally by the wholesale. The immediate way in which the furnaces went out when demand slackened has been astonishing. We believe that consumption has not been reduced in the same proportion as production. Of course it has been cut down. There are many foundries running on only half time and there are others that run slack four days a week and so on. But still on the whole consumption is not in such a bad state.

As yet no one knows exactly where "he is at." There have been many cancellations, many requests to hold up shipments, and yet every now and then there is a plaintive plea to rush iron in faster. So until the atmosphere is somewhat cleared and the financial situation is brighter, uncertainty will describe the iron trade. The trouble in the trade comes from the trouble in the money market, and when that is at an end iron will again revive, and many believe that the revival will be rapid.

Rogers Brown & Co., Cincinnati, will say in their weekly report: Curtailment of pig iron production is the most prominent feature of the iron situation to-day, and is going on at a rate very much greater than a month ago. Following the wonderful output in October, which was reported to be the heaviest monthly make in the history of the industry, manufacture has dropped to less than rate of twenty-three million tons annually, whereas the October rate was about five million tons in advance of this. Further decrease in production is anticipated during December, so it is now figured that a total output for 1907 will be about twenty-six million tons, an increase of approximately 700,000 tons over previous year. Up to a month ago, however, it seemed as if this year's production would be in excess of twenty-seven million tons, but the rapid blowing out of furnaces has materially reduced this probability.

Business is very quiet in all districts, few transactions reported and prices are still showing wide fluctuations with hardly enough business in most lines to warrant a statement as to market price. Plants everywhere are curtailing their activity for the time being and shutting down portions of their works, pending an easing up in financial affairs and waiting for more assurance as to the future.

Looking at matters generally, there seems to be a brightening over a week ago. There are two leading points for special consideration. One is the great increase in the population and substantial growth of wealth in the West, and there is not now, as there has been in years past, a harmful economic over-production. Our railroads are not putting out branches into territory which will not pay productive returns for years to come; our manufacturers have on their books more orders than they can fill; unsold stocks in the hands of retailers everywhere are at a minimum; the inherent purchasing power of the country is as good as ever, but the medium of doing business has simply been curtailed, not in quantity but in rapidity of circulation.

Secondly, there is every prospect that the present difficulties in financial and business lines will be of short duration. The wealth per capita in this country is greater than ever before. The great corporations are better fitted to withstand any depression than ever before, and while all securities, gilt-edged and others, are at a low price, it is a time when they can be purchased to great advantage and early increment. No one is prophet enough to tell when this improvement will begin, but already the clouds seem to be lifting and, with fundamental values as sound as they are to-day, such a thing as panic can exist in name only and in the minds of individuals who, while having no confidence in themselves, lose all cofidence in others.

Coke generally is reflecting the action of pig iron market, in that production in all districts is being greatly cut down and shipments are not moving as freely as a week ago. Prices are without change and are holding remarkably firm.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x20	$7 20
IX	14x20	8 25
IXX	14x20	9 40
IXXX	14x20	10 65
IXXXX	14x20	11 80
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$ 8 50
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes, 270 lbs	IX	20x28	11 25

PIG IRON.

Lake Sup. Charcoal	$26 00@$26 50
North'n Fdy., No. 1	26 00@ 26 50
North'n Fdy., No. 2	25 50@ 26 00
North'n Fdy., No. 3	25 00@ 25 50
Northern Scotch Fdy	26 00@ 26 50
Ohio Strong Softeners, No. 1	26 30
Ohio Strong Softeners, No. 2	25 80
Southern Fdy., No. 1	23 40@ 25 40
Southern Fdy., No. 2	22 90@ 24 90
Southern Fdy., No. 3	22 40@ 24 40
Southern Fdy., No. 4	21 90@ 23 90
Southern No. 1 Soft	23 40@ 25 40
Southern No. 2 Soft	22 90@ 24 90
Southern Gray Forge	21 40@ 23 40
Southern Mottled	20 90@ 22 90
Southern Silveries, 4 to 6 per cent Silicon	27 40@ 29 40
Jackson Co. Silveries, 8 to 10% Silicon	31 40@ 33 40
Ala. and Geo. Car Wheel	28 40@ 28 90
Malleable Bessemer	25 50@ 26 50
Standard Bessemer	25 50@ 26 50
Basic, Pittsburg	22 85

BLACK STEEL SHEETS.

Nos. 11-12 per 100 lbs.	$2 60
Nos. 13-14 per 100 lbs.	2 65
Nos. 15-16 per 100 lbs.	2 70
Nos. 17-21 per 100 lbs.	2 75
Nos. 22-24 per 100 lbs.	2 80
Nos. 25-26 per 100 lbs.	2 85
No 27 per 100 lbs	2 90
No 28 per 100 lbs.	3 00

GALVANIZED

Nos. 10-11 per 100 lbs.	$3 15
Nos. 12-14 per 100 lbs.	3 25
Nos. 15-16 per 100 lbs.	3 25
Nos. 17-21 per 100 lbs.	3 50
Nos. 22-24 per 100 lbs.	3 65
Nos. 25-26 per 100 lbs.	3 85
No. 27 per 100 lbs.	4 05
No. 28 per 100 lbs.	4 25

POLISHED SHEET STEEL.

No. 24 per 100 lbs	$4 90
No. 26 per 100 lbs.	5 00
No. 27 per 100 lbs.	5 10
No. 28 per 100 lbs.	5 20

SMOOTH STEEL.

Wood's Smooth, No. 20	$3 05
" " No. 22-24	3 10
" " No. 25-26	3 15
" " No. 27	3 20
" " No. 28	3 30

PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel 8½c

SOLDER.

XXX Guaranteed ½ & ½ per lb.	25½c
Commercial ½ & ½ per lb.	25 c
No. 1 Plumbers	24½c

SHEET ZINC.

500 lb. Casks case, per cwt.	$9 50
300 lb. Casks per cwt.	9 50
Sheets per cwt.	10 50

COPPER.

Copper sheet, 100 lbs. over, base

TIN PIGS AND BARS.

Banca, pigs, per lb	44 c
Straights, pigs, per lb	44½c
Straights in bars, per lb	47 c

LEAD.

American Pig	6½c
Bar	7½c
National (White) brands (in less than 100 lb lots), per lb	8½c

Sheet.

Full coils per 100 lbs.	$9 00
Cut coils per 100 lbs.	9 50

HARDWARE.

ADZES.

Carpenters'.	
Plumbs	40%
Coopers'.	
Barton's	20%
White's	15%
Railroad	
Plumbs	40%
Ship.	
Plumbs	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L Waterproof, 1-10s	40c
G D	35c
Musket	60c
Cartridges.	
Winchester Rim Fire Ctgs	50&33%
Winchester Cent. Fire, Pistol and Rifle	25&3%
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
Winchester Blank Ctgs., 22 cal.	$1 25
Winchester Blank Ctgs., 32 cal., C. F	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
Primers.	
Berdan Primers	$1 00
Winchester Primers	20%
Shells.	
New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓&11%
Gun Wads—per 1,000.	
Winchester Gun Wads	15%

Powder.	Each.
DuPont's Sporting, kegs	$ 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs	11 30
" " 12½-lb. kegs.	5 80
" " 6¼-lb. kegs.	2 97
" 1-lb. cans	15
Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 95
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 20
Buck Shot, 25-lb. bags, per bag	2 20
Chilled Shot, 25-lb. bags, "	2 20

ANCHORS

Expansion Screw Anchors 10%

ANVILS

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper 25%

AUGURS.

Boring Machine	70%
Irwin's	40&10%
Carpenter's Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearns, No. 3	36 00
Post Hole.	
Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40%
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or wi'out screw	40-12½%
Snell's " " "	40-5%

AWLS.

Brad.	
No. 3 Handled per doz.	$0 40
No. 1050 Handled "	80
Shouldered, assorted, 1 to 4, per gro.	$1 20
Patent asst'd, 1 to 4 "	85
Harness.	
Common "	95
Patent "	90
Peg.	
Shouldered "	1 20
Patent "	60
Scratch.	
No 1 handled "	4 80
No. 15, socket handled per doz.	1 25
No. 7 Stanley	1 80
Sewing.	
Common per gro.	90
Patent "	90

AXES.

Boy's Handled.	
Lippincott, 3 lb per doz.	$6 00
Falls City "	6 00
Broad.	
Plumbs, West, Pat	33⅓%
" Can. Pat	40%
" Firemen's (handled) per doz	$1, 75
Plumbs, Miners' (handled) "	6 75
Single Bitted (handled)	
Gladiator . 3 to 4 lbs , per doz	$11 00
Flint Edge " " "	9 25
Standard .. " " "	9 25
Elec Chopper, Forest Clipper	10 50
Perfect Premier " "	10 00
Crown " "	7 00
Single Bitted (without handles)	
Gladiator 3 to 4 lbs. per doz.	$8 50
Flint Edge, " "	7 00
Standard " "	7 00
Electric Chopper " "	8 25
Perfect " "	7 75
Crown " "	6 25
Double Bitted (without handles).	
Gladiator 3 to 4 lbs. per doz.	11 50
Flint Edge, " "	9 75
Perfect " "	11 00

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs advance 25c
4 to 5½ lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	40%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point per cwt. $3 75

BASKETS.

Clothes.			
Small Willow per doz.	$7 00		
Medium " "	8 75		
Large " "	10 50		
Galvanised Iron.	½ bu.	1 bu.	1½ bu.
Per doz	$4 75	6 50	8 00

BEATERS.

Carpet.	per doz.
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	1 10
Egg.	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8-inch per doz.	$8 50
10-inch "	10 50
Moulders'.	
12-inch "	12 50

BELLS.

Call.	
3-inch Nickeled Rotary Bell, Bronzed base per doz.	$5 00
Cow.	
High Grade	60%
Kentucky	65&10%
Door.	Per doz
New Departure Automatic	$6 00
Rotary.	
3 -in. Old Copper Bell	4 00
3 -in. Old Copper Bell, fancy	6 00
3 -in. Nickeled Steel Bell	4 50
3½-in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	40&5%
White Metal	40%
Nickel Plated	30%
Swiss	40&33⅓%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50%

Barm, lbs	40	50	75	100
Each	$1.25	1.60	2.35	2.85

BEVELS, TEE

Stanley's, rosewood handle, new list	25%
Stanley's iron handle	25%

BINDING, OILCLOTH.

Zinc	80%
Brass	70&10%
Brass plated	75&5%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50%
Russell Jenning's	25&10%
Clark's Expansive	50%
Steer's " Small list, $22.00	25%
" " Large " $26.00	25%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%
Countersink.	
No. 18 Wheeler's per doz.	$1 25
No. 20 " "	1 75
American Snail head "	75
" Rose " "	90
" Flat "	75
Mayhew's Flat "	1 25
" Snail "	1 25
Dowell.	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	60%
German Pattern per doz.	$0 60
German "	65
Gouge "	80
Spoon "	80
Countersink "	1 00
Reamer.	
Jenning's Square "	2 50
Standard Square "	75
German Octagon "	75
Screw Driver.	
No. 7 Common "	50
No. 1 Triumph "	1 25
No. 2 "	1 —
No. 340 Shepardson's "	— —
No. 1 Smith's "	— —

BLACKING, STOVE. (See Polish).

BLADES, SAW.

Butchers'.
Standard, ¾ & 1½-in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each, $1 50

Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%

Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10%
Steel.....50%

Tackle.
Iron Strapped.....70%
Com. Steel.....60%

BOARDS.

Stove.....40%

Wash.
Globe, single.....per doz. $3 15
Globe, double..... " 3 65
Magnolia..... " 3 55
Crystal Glass..... " 4 35
Brass King..... " 4 50
Nickel Plate..... " 4 15
Enamel King..... " 4 35

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, etc.
Carriage, ¾x6 and sizes smaller and shorter.....70%
Carriage, sizes larger and longer than ¾x6.....50-10&5%
Machine, ¾x4 add sizes smaller and shorter.....70%
Machine, sizes larger and longer than ¾x4.....60%
Elevator.....50-10&5%
Plow.....60&10%
Stove.....80%
Tire.....75%
Wagon Box Strap.....70%

Mortis, Door.
Gem, iron.....60%
Gem, bronze plated.....20%

Barrel.
Cast.....60%
Wrought.....
Wrought, bronzed.....50%

Flush.
Wrought.....50&10%

Spring.
Wrought.....
Wrought, heavy.....

Square.
Cast.....50&10%
Wrought.....

BORERS.

Angular.
Miller's Falls.....per doz. $13 00

Bung.
Doz.
Enterprise Mfg. Co 's No 1... $14 00
" " " No 2.. 18 50

BOXES

Mail, No..... 1 2 10
Per doz.....$3.50 5.50 17.50

Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each, $1 50

BRACES.

Barber's.....50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 68..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 60

Shelf.
Cast Iron, bronzed.....50-10&5%
Griffin Wrought Steel.....70&10%
Griffin Folding.....70%

BROILERS.

Wire.....70%
No. Cwron, Self-basting, 80dos .. $2 50

BUCKETS.

Pump, Rubber.
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75

Well.
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....20%
Tinners' Iron Burrs only.....65&5%

BUTTS.

Cast Iron.....70&5%.
Wrought Brass (New List).....20%
Wrought Steel, Bright.
Wrought Steel, Japanned.
Nos. 731 and - 70%

CALIPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M..... $3 75

Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25

Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$26.00 $27.00 $29.00
Chicago Pattern.
Nos..... 105 108 110
Per doz.....$20.00 $22.50 $24.00
Iowa Pattern.
Nos..... 408 410
Per doz..... $24.50 $25.50
New Elgin Pattern.
Nos 705 708 710
Per doz.....$27.00 $29.00 $30.50
Burn Pattern
Nos..... 700 701
Gals..... 8 10
Price..... $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each, $3 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per doz. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85

Bright Ox Chains.
½-in. $7.25; ⅜-in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs.$10.80 $9.00 $7.00 $6.20
Inch..... 9/16 ⅝ ¾ ⅞
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ⅞ 1 1⅛
Per 100 lbs.....$5.55 $5.55 $5.65

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil.

Cow Tie Chains.
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%

Halter Chains.
American, new list.....33⅓%
German.....50&10&5%
Niagara, new list 40%
Brown's, " 40%

Picture Chains.
Light Brass, 3 ft.....per doz. $0 65
Heavy Brass, 3 ft .... " 1 00

Pump Chain
Galvanized, per 100 lbs.....$5 50

Safety Chain.
Brass.....50%

Special Steel Loading Chain.
Inch..... ⅜ 7/16 ½
Per 100 lbs.....$16.00 $13.50 $12.50

Stretcher Chains
7/16-in. $8.50; ⅜-in. $7.75 per 100 lbs.

Tie-Out Chains.
Brown's.....70&5%

Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.

Wagon Stay Chains.
Inch..... ⅜ 7/16 ½
Per 100 lbs.....$6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School Crayon..... " 8c

CHARCOAL.

In bags.....per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round per doz....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20

Cold.
Good quality, ½ in. and larger.....per lb. .12c
Smaller size per doz.....

Socket, Framing and Firmer.
Barton's.....20%

Tanged, Firmer.
With handles.....30&5%

Choppers, See *Cutlers, Meat.*

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel.....65&7½%
Common Dash, Gal. 4 5 6
Per doz..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....30%

Carpenters'.
Steel Bar.....25%

Hose.
Sherman's, brass, ½-in., per doz.. 42c
Double, brass, ½-in., " 90c

Saw Filers.
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $7.50.

CLAWS, TACK.

Cast, wood hdle.....per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 60

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%

Pot.
Wire.....per doz. $0 55

Side-Walk.
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

Family.
Griffin, Inch..... 6 7 8
Per doz.....$5.50 $5.75 $6.25
Royal.....per doz. 2 25

Butchers.
Beattys, Kitchen 40%

CLEVISES

Malleable .....5½c lb.

CLIPPERS.

Bolt.....$1.90@4.75

CLIPS.

Axle.....65&5%

Damper.
Standard.....per doz. 65c
Troy..... " 38c

Hame..... " 17

CLOTH.

Emery.
Star.....50%
B. & A.....50%

Hardware Wire—full rolls (100 ft.)
2 to 8 mesh, black, per 100 sq. ft..... $2 50
9 to 12 mesh, black, per 100 sq. ft..... 2 50
2 to 3 incl., Galv.—in full roll... 4 50
4 and 5..... " .. 4 75
6..... " .. 5 00
7 and 8..... " .. 5 50

Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1 25

COCKS AND FAUCETS.

Compression Plain Bibbs.....60%
Lever Bibb Cocks.....60%
Compression Hose Bibbs ..50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list).....60%
Compression Lock C'ks(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz....$0 85
Milk Can Faucets, per doz..$2.60-4.20
Petroleum Faucets.....75%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin..per gro.$1.90 $2.40 $3.50
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 30 80 108
Per
Doz..$.37 .60 1.90 .90 1.15 .80
Nos... 299 320 390 532 620 1400
Per
Doz.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60—10—10%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 32c
1½ lb.....33c 2 lb... " 31c
3 lb and larger..... " 28c

CORD.

Picture
White Wire (new list).....55&5%

Sash.
Baltic Braided Flax.....per lb
Silver Lake. white. 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&30%

COUPLINGS, HOSE.

Brass.....per doz. $
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per doz.$22 75

CRAYONS—See Chalk.

CROW BARS.

inch or Wedge Point.....per lb 3½c

CUTTERS.

Glass.
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%
Meat.
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202, list, $1.50 ea.....40&7½%
Pipe.
Stanwoods.No.... 1 2 3
Each.....$0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Standard.....50%
American.....45%
American.....45%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant.....33⅓%

DIGGERS.

Post Hole.
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's..... " 17 00
See also Augers—Post Hole.
Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....00&10%
Blacksmith's Twist.....60%
Breast.
Common.....each, $2 25
Millers Falls..... " 2 10
Hand.
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear. per doz. 15 75
Millers'Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's.....per doz. 16 50
Bit Stock.
Standard List..60&5%@60%@10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Pattern.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Territory. L. C. L.
Eastern.....75&5%
Central.....75&10%
Southern.....75%
Western.....75%
S. Western.....70&10%
Terms, 2% for cash. Factory shipments generally delivered.
See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz...$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65
Corrugated Conductor.
Discount.....75&10%
Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz..$0.85 $1.00 $1.50
Pol'd, " .. 1.40 1.65 2.25
Plan'd, " .. 2.15 2.65 3.40
Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.65 $0.95
Planished, " .. 1.40 1.70 2.30

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size .....5-lb. pkgs. ½ kegs, kegs
No 60 to 150, per lb.. 4c 4c
Flour..... " ... 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans.....per doz. 1 65
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5%
Hooks and—
Brass.....50&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70%
Kearney & Foot.....75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00
Coal, Coke, Cottonseed.....30%
Hay.
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.....65&5%
Scoop.....30%
Header.
3-tine.....60&5%
4 " .....60&5%
Manure.
4-tine 60%
Ore.....40%
Spading.

FRAMES.

Hack Saw.
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform....each, $19 10
25 qt., " " " 22 60
25 qt., Sampson Power, " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc.....
.....50&10%
Saw,
Wire.
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single.....90%
Double.....90&10%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber.....per lb. 12 c
A White..... " 15 c
H. S. Amber..... " 16½c
Liquid.
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

Bright Wire.....85&15%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....33⅓%

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 19
Peg.
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 52
Sewing.
Common..... " 22
Patent..... " 52

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs.....60&5%
Engineers'.
Plumbs.....60&5%
Farriers'.
Plumbs.....40&10%
Machinists'.
Plumbs.....60&5%
Nail.
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... 1 15
Maydole's.....30&5%
Riveting.
Plumbs.....40&12½%
Shoe.
Cast.....per doz. $0 75
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per doz. 4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs .....75&5%
5 lbs. and over.....75-10&5%
Masons'.
Single and Double Face.....75&5%

HANDLES.

Auger.
Common Assorted....per doz. $0 38
Peck's Adjustable.... " 2 10
Ives' Adjustable.....per set, 1 35
Axe.....60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 38c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24
Coal Pick.....50&10%
Drift ng Pick.....50&10%
File, assorted, 13c; Large, 16c per doz.
Hammer.
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c
Hatchet..... " 40
Hay and Manure Fork.....30%
Hoe and Rake.....30%
Plain.....per doz. $0 75
Varnished..... " 80
Screw Driver.
Assorted..... " 37
Large..... " 48
Shovel and Spade.....33⅓%

HANGERS.

Barn Door.
Nansen.....60&10%
Matchless.....70&10%
Storm King.....60%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse.....60%
Conductor P.
Griffin.....70&10%
Iwan's Perfection.....50%
Eave Trough.
Baker's.....per gro. $2 35
Imperial.....20%
Wire.....33⅓%
Parlor Door.
Acme.....per set, $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crown.....50-10&5%
Cast Claw.....per doz. $1 20%1 45
Cast Shingling.... " $0 95@1 20
Germantown.....40%
Plumbs.....33⅓&5%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.....per doz. $9 00
Wenzleman's No. 2..... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per doz $1 05
Gate.
Clark's..... 1 2 3
Hgs & Ltch.. doz. $2.50 2.90 4.00
Hinges only... " 1.90 2.20
Latches only . " .70 .75
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 50
Spring.
American.....20%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....30%
New Idea.....per gro. $8 00
Oxford.....20%
Wrought Iron
New Lists .....
Griffin
Light Strap Hinges.....60%
Heavy Strap Hinges.....65%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 75
14 to 20 in..... " " 3 65
22 to 36 in..... " " 3 40
Screw Hook and Eye.
⅜ in.....per 100 lbs. $6 75
½ in..... " " 7 75
⅝ in..... " " 9 75

HOES

Garden .....70&10%
Grub.
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

And Eyes.
Brass.....50&10%
Iron.....65&10%
Awning.....per gro. $1 00
Belt.
Brown's.....70&5%
Jones'.....65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle. per doz. $7 00
Chain.
Inch..... ¼&5/16 ⅜ 7/16 ½
Per 100...$7.60-8.10 9.75 11.50 12.60
Clothes Lines.
Japanned .....per doz 22c@24c
Galvanized..... " 40c
Coat and Hat
Cast Iron .... per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable .... 50&10%@50&10&5%
Wrought .. .... 40&10%@50%
Corn.
Common, unpolished, per doz. $1 35
Common, polished.... " 1 80
"Cut Easy"..... " 2 75
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 2 75
Hammock.
With plate.....per doz. 50
With screw..... " 45
Lambrequin, or Drapery, per gro. .21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring .....per lb. 5½c

HOOPS, TUB.

Elastic ... per case of 2 doz.... $1 50

HOSE, GARDEN.

		Coupled, per ft.
Heron, 3 ply-¾" guar. press	55 lbs.	7½c
Crane.. " " "	75 "	8½c
Falcon " " "	95 "	9½c
Eagle " " "	120 "	10½c
Condor " " "	150 "	11½c
High Test " " "	200 "	12½c

COTTON COV. RUBBER HOSE.

High Grade-¾"-guar. press.	400 lbs.	11½
Special " " "	300 "	9½c
Leader " " "	100 "	7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's.
No..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 .50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals.—First column.

IRONS.

Curling.
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial..... " 1 00
Pinking..... " 70
Plane.
Wood Bench.....20&5%
Sad.
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 4 50
Common, nickel plated, 5 25
Chinese Polishing.....per doz. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's,
No. 50 J. Enterprise, per set 93
No. 55 " " " 90
No. 50 T. " " " 1 00
No. 55 T. " " 96
No. 50, Bless & Drake " 96
No. 55, " " " 99
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
Tuyere.
Single Duck Nest.....per doz $5 25
Double Duck Nest .. " 6 25
Sutton.....each.... 2 60

JACKS.

Locomotive.....70%
Wagon.
Oliver,
Nos..... 0 00
Each.....$0.60 $0.80
Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.00

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper..... per lb., 27c
Maslin.....65%
Sugar.....50%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, doz.$3 85
California..... 3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters' 10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point.. " 8 50
Hedge.
Challenge.....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 30
Streeter, 6-Blade..... " 2 00
Putty.
Common.....per doz. $0 60@1 00
Lander'r..... " 1 40@1 75
Scraping.
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

Door.
Mineral.....per doz. $0 80
Porcelain..... " 90
Jet..... " 90

LADDERS.

Common Long.
Per ft.....9c@14c
Extension.
Per ft.....14c
Step.
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

Bull's Eye Police.
3 -in. Flash Light....per doz. $6 00
2½-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
Tubular.
Buhl . . . . . .net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

Cut.....33⅓%
Sides.
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
Transom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Gross...$1.50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...doz. 80c
Clothes.
60-ft. Jute.....per doz. $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
50-ft. Braided Cotton. " 25

LINING, STOVE.

In Bricks .....per crate, 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright..... "	2 00	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior..... " 2 00
Handy..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20
Washing.
Winner.....per doz. 54 00
Keystone..... " 54 00
U. S. Steel..... " 60 00
Advance, f.o.b.Chicago " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
Tinners'.
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS

Door
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2.....per gro. $3 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs.....	10	13	16	18
Per doz....	$4.00	4.50	5.25	5.60
Wood face, lbs.....	10	12	14	
Per doz.....	$5.00	5.50	6.00	

Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	½ pk.	1 pk.	bu.
Galvanized, per doz.	$2.25	3.00	3.85
Japanned.. "	1.75	2.45	3.15

MICA.

First Quality.....20%
Second Quality.....25%

MILLS, COFFEE.

Enterprise.....25%
Parker.....40-12½&2½%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.

Pounds.....	¾	1	1½	2
Per dozen....	$2.00	2.35	2.65	3.25

MOWERS, LAWN.

Ball-Bearing.

Inches.....	14	16	18	20
Each.....	$6.25	6.75	7.25	8.00

Cheap Grades.

Inches.....	12	14	16	18
Each.....	$2.35	2.45	2.55	2.70

Clipper.....50, 10&10%
Yale.

Inches.....	14	16	18	20
Each.....	$3.50	3.75	4.00	4.35

Philadelphia.
All Styles, except A & E, 60, 10&10%
Style A.....50&10%
Style E, High Wheel....60, 10&10%
Drexels.....40%
All Day .....Net Price

NAILS.

Cut Steel .....rates, $2 50
Cut Iron..... 2 60
Wire.
Small Lots..... $2 40
Carload Lots..... 2 35
Cement Coated..... 2 30
Horse Shoe.
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....30&5%
Star.....35&5%
Clover Leaf .....per lb., net, 10½c
Picture.
Brass Heads.....25%
Brads.....85%
Furniture.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving..80, 10@5%
Galvanized after weaving.....80@5%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co....60%
Hoof.
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 90
Magic..... " 3 50
Mystic..... " 3 60

NUTS, HOT PRESSED.

Square Blank.

In	¼	5/16	⅜	7/16	½	⅝
lb	9½c	8c	6½c	5½c	5½c	5c	4½c

Square Tapped.

In.	¼	5/16	⅜	7/16	½	⅝	¾
lb.	12½c	10½c	8c	7½c	6½c	6½c	6c

For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60%
Zinc.....60%
Engineers'.
Cannon.....55%
Tin .....per doz. $2 00@$2 25
Machine.
Common.....per doz. $0 58
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned.....65@75c

OPENERS.

Box.

Inches.....	10	12	14
Flat.....per doz.	$2.85	3.60	4.15
Round.... "	2.10	2 25	2.75

Can.
Delmonico .....per doz $1 30
Never Slip..... " 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. 11 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt , without gauge, per doz. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
Sap.
10-qt., Galvanized, per 100....$13 00
12-qt., " " 14 50
14-qt., " " 16 25
16-qt., " " 17 75
10-qt.,IC Tin..... " 10 25
12-qt., " .... " 11 75
14-qt., " .... " 13 00
10-qt.,IX Tin.... " 12 75
12-qt., " .... " 16 00
14-qt., " .... " 17 00
Stock.

Galv'd, qts.	14	16	18	20
Per doz.....	$3.75	4.00	4.75	5.25

Water.

Galvanized... qts.	10	12	14
Per doz.....	$1.95	2.20	2.45

Wood.
Cable, 2-Hoop.....per doz. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 60
Standard, 3-Hoop.... " 1 80

PANS

Dripping.....60&5%
Fry
Common .....75&10%
Acme 70%
Roasting.
Paxton,

Nos.....	1	2	3	4
Per doz....	$4.75	5.75	6.50	7.50

Neverburn .. 4.00 4.50 5.50 6.00
Savory, No. 200.....per doz. $8.00

PAPER.

Building.
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin....per roll, 40
No. 30, Red Rosin.... " 55
Sand and Emery.
Star ..... low list, 50%
B. & A.....50%
Wrapping.
Drab Fiber.....per lb. $0 00
Rag..... " 0 00

PARERS.

Apple.
Bay State.....per dcs. $13 50
Turntable..... " 0 00
White Mountain..... " 5 00
Reading..... " 7 00
Potato.
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

PINCERS.

Carpenters', cast steel.
Inches..... 6 8 10 12
Per doz..... $2.00 2.60 2.95 3.75
Blacksmiths'.....45%
Heller's.....40%

PINS.

Clothes.
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
Picket.
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....70%
Central.....70&5%
Southern.....70%
Western.....70%
Southwestern.....65&5%
Lead.
Full coils.....per lb. 7½c
Cut coils..... " 7¾c
Stove
Acme—Inches.... 5 6 7
Smooth, per jt... 8½c 9½c 10½c
Planished, " 32 c 33 c 43 c
Peerless—Smooth, 7½c 8 c 9½c
Polished.....14½c 15½c 18 c
Planished.....28 c 31 c 35½c
Made-up—Inches.. 5 6 7
Smooth..... 7½c 8 c 9½c
7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c
Yale Patent Lock Pipe—Stove.

	5"	6"	7"	7" to 6"
Blue Steel:	Cents			
Battle Axe Blue...	7	7½	9½	10½
Can't Slip " ..	7½	8½	10	11
Peerless " ..	7½	8½	10	11
Duplex " ..	10	11	13	14
Yale, Rus. Pin....	15	16	17	18
Duplex Planished.	29	31	37	38
Galvano, Gal.....	15	16	17	18

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Crating made-up pipe extra.
Wrought Iron Gas Pipe.
⅛@½-in., black.....discount, 60%
⅝@½-in., black..... " 60,10&5%
¾-in. to 6-in., black... " 70%
7-in. to 12-in., black... " 62½%
⅛@½-in., galvanized.... " 42%
⅝@½-in., galvanized.... " 50%
¾-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench.....25&5%

PLANTERS.

Corn.
Monitor.....per doz. $7 75
Triumph..... " 6 00
Segment..... " 9 00
Potato.
Acme.....per doz. $6 25
Challenge..... " 11 00
Pingree..... " 2 25
Eureka..... " 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—Ins.. 4½ 6 8 10
Per doz..... $2.75 3.35 4.15 5.15
Button's Pattern.
Inches..... 4½ 6 8 10
Per doz..... $2.25 2.75 3.25 4.25
Cutting
Bernard's.....30%
Lodi.....50%
End and Diagonal Cutting
Swedish Side.....70%
Utica Drop Forge & Tool Co....50%
Fencing.
Farmers' Choice.....per doz. $8 00
Russell's..... " 8 25
Flat and Round Nose.
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%
Gas.—Inches.. 7 8 10 12
Per doz..... $3.00 3.50 4.50 5.50

Tinners'.
Hollow.....40%
Solid.....each, 5½c

PLUMBS AND LEVELS

Common.....60&10&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

POINTS

Drive Well Points.....75&5%

POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood hand'ls " 80
Nickel Plated, coil hand'ls " 65

POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

POLISH.

Metal.
Pride of the Bar..... $1 00
Puts Cream,
Pts..... 1-6 ½ ¾
Per doz..... $0.80 1.10 1.65
Pts..... 1 2 3 8
Per doz..$2.75 4.50 7.50 12.50
White Silk, half pints, per doz. $2 00
White Silk, 6-oz. cans, per doz. 1 00
Wondershine,
Pts..... 1-6 ½ 1 2
Per doz. $0.70 1.35 2.25 3.00
George William Hoffman
U. S. Metal Polish Paste, 3-oz boxes, per doz., 50c: per gro 4 55
½-lb. boxes.....per doz 1 20
1-lb. boxes..... " 2 25
U. S. Liquid, 8-oz cans, per doz., $1.25.....per gro 12 00
Barkeepers' Friend Metal Polish.....per doz 1 75
.....per gro 18 00
Shoe.
M. C. D.....per doz.....36c@50c
F. C. O..... " 40c
T M..... " .55c@$1 75
Imperial.....per gro..... 5 00
Stove.
Black Eagle, 1-lb. cans, pr gr, $15 00
Black Silk—
5-lb. pail..... $0 75
Paste, 5-oz. cans....per doz 75
Paste, ½-lb. cans.... " 1 05
Liquid, ½-pt. cans... " 1 00
Liquid, 6-oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1-lb. cans...per gro. 13 00
Black Jack, ½-lb. cans. " 9 25
Dixon's Card. of Iron. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 35
4-qt..... " 3 75

POTS, FIRE.

Berns.....each, $3 85
Clayton & Lambert's, each, $4 75@6 25
Gate City.....each, 6 25
Gem.....each, $6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%
Henis.....per doz. $1 85

PRIMERS

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Cork.
Daisy..... each, $3 10
Phœnix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
Tack—Giant..... " 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, ...per doz. 2 15
Hot House—Jap'd.....50&10%
Screw—Jap'd.....60%
Side—Jap'd.....50&10%
Sash.
Common.....per doz. $0 20
Common-Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.
Nos..... 1 2 3 4
Each..... $1.10 1.23 1.40 1.85
Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each,... 2 25

PUNCHES.

Conductors'.
No 22.....per doz $2 25
Machine.....per lb 19
Saddlers'.
Common.....per doz 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Matchless, 1-in..... 3 c
Matchless, 1½-in..... 3½c
Storm King..... 4 c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 8½c

RAKES.

Coal or *Wood*.....per doz. $5 20
Garden.
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
Hay.
Wood.....$1 50@$2 00
Lawn—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 3 00
Jumbo, 36 teeth..... " 5 50

RASPS—See Files.

RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.

Black and White Japanned.....66⅔%
Nickel Plated.....66⅔%
Electroplated, Brass, Bronze or Copper.....66⅔%

RINGS.

Bull.
Copper.....2½ in. 3in.
Per doz.....$1 35 $1 75
Rea's Improved Self-Piercing copper, pr doz 2 00 ....
Steel, per doz..... 85 95
Nickel plated..... 1 35 ....
and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 00
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
Fruit Jar.
White.....per lb.....30c
Key.
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

RIVETS.

and Burrs.
Copper Belt.....33⅓%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
Hame.....per lb. $0 10
Slotted Clinch per doz 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz, 45c

RIVET SETS

See Sets.

ROPE.

Cotton.
¼, 5-16 in. Com on reels. .per lb. 11½c
¼, 5-16 in Com. in coils.. " 12 c
¼, 5-16 Imperial in coils.. " 21 c
Sisal.
1st Quality.....12 c
Hardware Grade, rates, per lb...10 c
Pure Manila.
1st quality.....per lb. 15½c
Hardware Grade, rates... " 14½c

RULES.

Boxwood.....50&10%
Ivory.....

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's.....25%
Jackson's.....25%
Butchers'.
Disston's.....30%
Circular.
Disston's.....50%
Hiles'.....50&10%
Compass.
Common.....per doz $1.35@1 60
Disston's.....%25
Cross-Cut
Disston's.....45%
Dehorning.
Disston's.....per doz. $5 75
Hack.
Disston's.....25%
Keystone.....30%
Hand and Rip.
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprise, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....25%
Kitchen.
Sterling.....25%
One Man.....50%
Panel
Brown's.....30%
Disston's No. 7.....30%
Disston's No. D100.....25%
Pruning.
Brown's.....25%
Disston's.....25%
Wood
Common.....per doz. $4 50
Clover Leaf..... " 6 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

AW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

SCALES.

Counter.
Pelouze.....40&10%
Platform.
Osgood.....50%

SCOOPS.

Grain.
½-bu. "Hercules".....per dos. 13 70
1-bu. "Hercules"..... " 15 00

SCRAPERS.

Box.
Triangular.....per dos. $4 00
Cabinet.
Cast Steel.....per dos., 60c@75c
Road.
Cubic ft. 7 5 3
Without run's, ea. $4.00 3.75 3.50
With runners, ea.. 4.25 4.00 3.75

SCREWS.

Bench.
Iron, in..... 1 1½ 1¾
$3.50 4.00 4.75
Wood, white maple...per doz. $3 50
Hand—Wood.....10%
Hand Rail.....80&10%
Jack.....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial
Nos.. 1 2 3 4 5 6
Per doz. 18c 20c 26c 30c 22c 25c
Wood.
F. H. Bright.....87½&5%
R. H Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Be Ve Be, grass.....per dos. $8 50
Clipper, grass..... " 8 00
Clover Leaf Dutchman. " 8 00
Honest Dutchman..... " 8 00
Be Ve Be..... " 8 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, common..... " 42
Octagon, common.... " 33
No. 5, square..... " 75
Cup point, knurled... " 75
Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Morrill's Old Style.... " 5 00
Morrill's Pattern..... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut. ... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz $1 60
Smith & Hemenway 20%

SHAVES, SPOKE

Iron.....per doz $1 10@1 85
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's 15%

SHEARS

Pruning
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
Cailfornia Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00
Sheep—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 .42 .70
Hatfield's.
Per set..... $0.75 1.00 1.00

SHELLS—See Ammunition.

SHELLERS, CORN.

Union.....per doz. $6 75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal
No 2 Woodford.....per doz. $5 50
No. 132..... " 6 00
Ames' new list .....Discount, 12½%
Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, etc.
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list .....Discount, 12½%
Snow.
Per doz.....$1.65@$0.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 50

SNIPS, TINNERS'.

Wiss.....40%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c
Reliance.
Per doz ...light, $1.25; heavy, $2 50
Star.
Per doz ....light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1 35

SQUARES.

Steel and Iron.....70&5%
(Add for gluing, $2.50 per doz., net.)
Mitre.
Try.
Try and Bevel.
Try and Miter.
Fox's.....per doz. $5 75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood.. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

STAPLES

Blind.
Barbed.....per lb ...9½@9½c
Butter Tub..... " .....8 @8½c
Fence—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 60
Netting.
Galvanized.....per 100 lbs. 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hooks and Staples, Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

STEELYARD.

Discount 25%.

STONES.

Axe.
Hindostan .....per lb 5½@7 c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60% @60&5%
Oil—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6½
Oil—Unmounted.
Arkansas Hard .....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz prs., $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 20
King..... " 4 50
Wire.
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....60%
Copper.....per lb. 32c
Canvas Nails.....75&5%
Clout Nails.....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back.. ... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Ballon.....per doz. $1 25
Harper's..... " 1 35
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker ..per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

TROWELS.

Brick.
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....30%
Rose's.....20%
Plasterers'.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each, $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed..... $3.00 3.85 5.50
Full Ironed..... 3.15 4.50 6.45

TUBS, WASH

Standard, Wood.
Nos..... 3 2 1 Ex. large
Per doz.....$5.00 6.00 7.00 9.50
Dowell.
Per doz..... 5.35 6.35 7.00 9.50
Cedar.
Per doz..... 6.10 7.10 7.90 10.80
Indurated.
Per doz..... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$6.00 6.75 7.75

TWINE.

Per lb.
3-ply Cotton Wrapping 25c
4 " " " 25c
" " Extra Wrapping.....27c
4 " " Hvy. Wrapping 25c
4 " " Wrapping on tubes....27c
3 " " " " cones....25c
4 " " " " " 25c
India Hemp, ¼-lb. balls 10c
" " ½-lb. " 18c
" " ¼-lb. " .....doz. 75c
2-ply Jute, ½-lb. " 14c
3-ply Jute, ½-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
Seins.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ¼-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-ply "B" in hanks 18c
4- " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks...37c
Fodder or Lath.
130 strand.....6½c
200 strand.....—c

VISES.

Phœnix.....30%
Phœnix Oval Slide.
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.85 2.75
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

WARE.

Stow Hollow Ware.
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
Country Hollow Ware, per 100 lbs. $3 00
White Enameled Ware.
Maslin Kettles.....60&10%
Covered Ware.
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
Glue Pots,
Tinned..... .....25%
Enameled.....30%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb.:
In. ¼ ⅜ ½ ⅝ ¾ ⅞ 1
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ¼ ⅜ ½ ⅝ ¾ ⅞ 1
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz. $0 30
Galling.....per lb. 10⅓
Saw..... " 8⅓

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.

Hitching.....per lb. 2½c
Sash—f.o.b. Chicago....pr ton, 26 50

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 39 00
Klondike Steel Tray.. " 28 00

WHEELS.

Corundum.....70&10&5%
Emery.....75&5%
Well. Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

WIRE.

Barbed. Painted. Galv'd
Carloads .. per 100 lbs. $2.65 $2.95
Less than car " 2.70 3.00
Brass.
In coils.....20%
In 1-lb. spools, new list.....50%
Broom—Tinned . . . 60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
1-lb. spools, new list.....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2 30
Nos. 6 to 9, Galv'd.. " 2 60
Hair—New List.....50%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....75&5%
Tinned, broken bdles.....65&10%
Picture—In coils . . . . 80% @80&10%
In 5-lb. spools.....per lb.....26c
Plain—Small lots..... $2 10
Car lots..... 2 05
Small spools 5c per 100 higher.

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Coe's Standard.....40%10&5%
Agricultural.....70&10%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%

BEMIS & CALL'S WRENCHES.

Improved Adjustable S nut.....40%
Improved Adjustable S pipe 40%
Briggs' Pattern nut.....40%
Combination Bright.....40%
Combination Black.....40&5%
Steel Handle nut.....50%
Merrick Pattern nut.....50%

WRINGERS.

No. 22, Guarantee....per doz. $32 50
No. 110, Guarantee.... " 22 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
No. 300, Novelty..... " 28 00
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Iwan Bros., Streator, Ill

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Lyons Mfg. Co., Lyons, Iowa

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Boynton Furnace Co., Chicago, Ill
Kellogg-Mackay-Cameron Co., Chicago, Ill

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Berger Bros. Co., Philadelphia, Pa

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Star Expansion Bolt Co., New York, N.Y

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Bertsch & Co., Cambridge City, Ind
Dreis & Krump, Mfg. Co., Chicago, Ill
Niagara Machine & Tool Works, Buffalo, N. Y
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Hungerford, U. T., Brass & Copper Co., New York, N. Y
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Pritchard-Strong Co., Rochester, N. Y

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Stuber & Kuck, Peoria, Ill

Carpenters' Tools

Griffin Mfg. Co., Erie, Pa
North Bros. Mfg. Co., Philadelphia, Pa

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Cases—Revolving Screw

American Bolt & Screw Case Co., Dayton, Ohio

Ceilings

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley-Voshardt Co., Chicago, Ill
Keighley Met. Ceiling Co., Pittsburg, Pa
Milwaukee Artistic Metal Ceiling Co., Milwaukee, Wis
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Obermayer Co., S., Cincinnati, O

Cement—Roofing

Auld & Conger Co., Cleveland, O
Conners, Wm. Paint Mfg. Co., Troy, N.Y

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Bridgeport Chain Co., Bridgeport, Conn

Chains—Jack and Safety

Hungerford, U. T. Brass & Copper Co., New York

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Iwan Bros., Streator, Ill

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Mannen & Esterly, Cleveland, O
Marteross Co., Chicago

Coil Springs

Pullman Mfg. Co., Rochester, N.Y

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa

Conductor Pipe

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, Ohio
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Copper and Brass

Hungerford, U. T., Brass & Copper Co., New York, N. Y
Plume Atwood Mfg. Co., Chicago, Ill

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Obermayer Co., S., Cincinnati, O

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Dries & Krump, Mfg. Co., Chicago, Ill
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Robinson, Mfg. Co., J. M., Cincinnati, O

Corrugated Iron

Sykes Steel Roofing Co., Chicago, Ill

Crimping Machines

Robinson, Mfg. Co., J. M., Cincinnati, O

Cut Offs—Rain Water

Cooney & Geiger, Indianapolis, Ind.
La Crosse Steel Roof. Co., La Crosse, Wis
Milwaukee Corrugating Co, Milwaukee, Wis.

Cutlery

Weiss, L. T., Brooklyn, N. Y

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Howes, S. M., Co., Boston, Mass
Sayre Stamping Co. Sayre, Pa.

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Canton Mfg. Co., Canton, O
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Canton Mfg. Co., Canton, O
Dieckmann, Ferdinand, Cincinnati, O.
Milwaukee Corrugating Co., Milwaukee, Wis
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Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugat'g Co., Wheeling, W. Va

Elbows—Stove Pipe

Reeves Mfg. Co. Canal Dover, O

Electrical Supplies

Manhattan Electrical Supply Co., Chicago, Ill

Elevators

Kimball Bros. Co., Council Bluffs, Ia.

Enamel—Iron

Nickel Plate Stove Polish Co., Chicago, Ill

Enameler

John Peil, Columbus, O

Enameled Ware

Lalance & Grosjean Mfg Co., Chicago, Ill
Star Enameling & Stamping Co., Pittsburgh, Pa

Enameler

Peil, Jno., Columbus, Ohio

Fencing—Wire

Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Files

Carver File Wks, Philadelphia, Pa
Disston, Henry & Sons, Philadelphia, Pa

Firearms

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

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Stevens, J. Arms and Tool Co., Chicopee Falls, Mass

Flash Lights

Manhattan Elec. Sup. Co., Chicago, Ill

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Enterprise Mfg. Co., Philadelphia, Pa

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Stevens, F. B., Detroit, Mich

Furnace Cement

Connors Paint Mfg. Co., Wm., St. Louis, Mo

Furnaces—Gas

Mannen & Esterly Co., Cleveland, O

Furnaces—Hot Air

Bonnot Co., The Canton, O
Boynton Furn. Co., Chicago, Ill
Forest City Fdy. & Mfg. Co., Cleveland, O
Garner Heating Co., Lansing, Mich
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg. Co., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
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Lennox Furnace Co., Marshalltown, Ia
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March-Brownback Stove Co., Pottstown, Pa
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Schwab, R. J. & Sons Co., Milwaukee, Wis
Stove & Range Co of Pittsburgh, Pittsburgh, Pa
Wise Furnace Co., Akron, O
Youngstown Furn. & Supply Co., Youngstown, O

Furnaces—Tinners'

Burgess Soldering Furnace Co., Columbus, O
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Turner Brass Works, Sycamore, Ill

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Green Fdy. & Furn. Wks., Des Moines, Ia
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Mueller, L. J. Furn. Co., Milwaukee, Wis

Furnace Repairs

Northwestern Stove Repair Co., Chicago, Ill

Furnace Rings

Walworth Run Fdy. Co., Cleveland, O

Gas Stoves

Stove & Range Co. of Pittsburgh, Pittsburgh, Pa

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Gloria Light Co., Chicago, Ill

Generators—Acetylene

Ideal Epworth Acetylene Co., Waterloo, Iowa, & Johnstown, Penn

Grain Grader

Paxton & Gallagher Co., Omaha, Neb

Grinders

Royal Mfg. Co., Lancaster, Pa

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American Lock Nut Co., Oregon, Ill

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Safety Door Hanger Co., Ashland, O

Hangers—Eaves Trough

Schoedinger, F. O., Columbus, O

Hangers—Garment
Pullman Mfg. Co., Rochester, N.Y

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Peck-Hamre Mfg. Co., Berlin, Wis
Pullman Mfg. Co., Rochester, N. Y
Pritchard-Strong Co., New York, N. Y
Simmons Hardware Co., St. Louis, Mo
Smith & Hemenway Co., New York, N. Y
Taylor & Boggis Fdy. Co., Cleveland, O

Hardware Delivery Wagons
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Detroit Heating & Lighting Co., Detroit, Mich
Kelsey Heating Co., Syracuse, N. Y

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Griffin Mfg. Co., Erie, Pa
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Lawson Mfg. Co., Chicago, Ill

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Avery Stamping Co., Cleveland, O
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Standard Horse Nail Co., New Brighton, Penna

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Lennox Hotel, Buffalo, N. Y

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Kees Mfg. Co., F. D., Beatrice, Neb

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Pritchard-Strong Co., Rochester, N. Y

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Denning Wire & Fence Co., Cedar Rapids, Ia

Lawn Mowers
Clipper Lawn Mower Co., Dixon, Ill
Philadelphia Lawn Mower Co., Philadelphia, Pa

Levels
Baker-McMillen Co., Akron, O
Davis & Cook, Watertown, N. Y

Lighting
Detroit Heating & Lighting Co., Detroit, Mich
Gloria Light Co., Chicago, Ill
Ideal Epworth Acetylene Co. Waterloo, Iowa and Johnstown, Penna

Mail Boxes
Blick-Williams Co., Indianapolis, Ind
Peck-Hamre Mfg. Co. Berlin, Wis

Metal—Perforated
Harrington & King Perforating Co., Chicago, Ill

Metal Polish
Hoffman, Geo. W., Indianapolis, Ind
Nickel Plate Stove Polish Co., Chicago, Ill

Metal Shingles
Burton, W. J. Co., Detroit, Mich
Cortright Metal Roofing Co., Philadelphia, Penna
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St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

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Columbus Bolt Works, Columbus, O

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Buckeye Paint & Varnish Co., Toledo, O
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Harrington & King Perforating Co., Chicago, Ill

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Berger Bros. Co., Philadelphia, Pa

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Hoffman, Geo. W., Indianapolis, Ind

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Rochester Radiator Co., Rochester N.Y

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Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O
Symonds Mfg. Co., E. St. Louis, Ill
Tuttle & Bailey Mfg. Co., New York, N.Y
Waterloo Register Co., Waterloo, Ia

Register Faces
Wooden Ventilator Co., East Palestine, O

Rifles
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

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Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Sykes Steel Roofing Co., Chicago, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Roofing Cement
Auld & Conger Co., Cleveland, O
Connors Paint Co., The Wm., Troy, N.Y
Taylor Co., N. & G., Philadelphia, Pa

Roof Paint
Dixon, Jos. Crucible Co., Jersey City, N.J

Rules
Lufkin Rule Co., Saginaw, Mich

Sash Balances
Pullman Mfg. Co., Rochester, N.Y

Saw Sets and Saws
Disston, Henry & Sons, Philadelphia, Pa
Smith & Hemenway Co., New York, N.Y

Screens—Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks
Pullman Mfg. Co., Rochester, N. Y

Screws
Columbus Bolt Works. Columbus, O

Screw Drivers
North Bros. Mfg. Co Philadelphia, Pa

Seamless Tubing—Brass & Copper
Hungerford, U. T., Brass & Copper Co., New York, N. Y

Seed Cleaners
Paxton & Gallagher, Omaha, Neb

Sharpeners—Tool
Royal Mfg. Co., Lancaster, Pa

Shears
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O
Weiss, H. & Co., New York, N.Y

Sheets—Black and Galvanized
Berger Mfg. Co., Canton, O
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugat'g Co., Wheeling, W.Va

Sheets—Planished
Follansbee Bros., Pittsburg, Pa
Taylor Co., N. & G., Philadelphia, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheet Metal Ornaments
Gerock Bros. Mfg. Co., St. Louis, Mo

Shelf Boxes
Green & Co., A. H., New York, N. Y

Shot Guns
Stevens J., Arms & Tool Co., Chicopee Falls, Mass

Shovels
Avery Stamping Co., Cleveland, O

Siding
Milwaukee Artistic Metal Ceiling Co., Milwaukee, Wis

Sifters
Stuber & Kuck, Peoria, Il

Skylights
Berger Mfg. Co., Canton, O
Burt Mfg. Co., Akron, Ohio
Eller Mfg. Co. Canton, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Skylight Gearing
Weiss, H. & Co., New York, N.Y

Slate Roofing
Auld & Conger Co., Cleveland, O

Solder
Aluminum Solder & Refining Co., Oswego, N. Y
Taylor Co., N. & G., Philadelphia, Pa

Solderene
Solderene Co., Boston, Mass

Squares, Machinists'
Disston, Henry & Sons, Philadelphia, Pa

Stampings—Sheet Metal
Avery Stamping Co., Cleveland, O

Stoves and Ranges
Champion Steel Range Co., Cleveland, O
Chicago Stove Works, Chicago, Ill
Culter & Proctor Stove Co., Peoria, Ill
Foster Stove Co., Ironton, O
M. & D. Range Co., Chicago, Ill
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.
Union Stove Co., New York, N.Y
Van, John, Range Co., Cincinnati, O

Stove Cement
Dixon, Jos. Crucible Co., Jersey City, N J

Stoves—Gas
Champion Steel Range Co., Cleveland, O
Stove & Range Co. of Pittsburgh Pittsburgh, Pa

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Patterns
Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N Y
Weller Pattern Co. Quincy, Ill

Stove Pipe
Hemp & Co., St. Louis, Mo

Stove Pipe Thimbles
Stuber & Kuck, Peoria, Ill

Stove Putty
Connors Paint Mfg. Co., Wm., St. Louis, Mo

Stove Repairs
Brauer, A. G., Supply Co., St. Louis, Mo
Manufacturers Stove Repair Co., Chicago, Ill
Northwestern Stove Repair Co., Chicago, Ill
Reeves, S. V., Philadelphia, Pa

Stove Trimmings
Cleveland Nickel Works, Cleveland, O

Stove Trucks
Arcade Mfg. Co., Freeport, Ill

Sugar Kettles
Sperry, D. R. Co., Batavia, Ill

Supplies—Foundry
Obermayer Co., S., Cincinnati, O
Stevens, F. B., Detroit, Mich

Supplies—Stove Dealers'
Brauer, A. G., Supply Co., St. Louis, Mo

Tacks
Hungerford, U. T., Brass & Copper Wks., New York, N. Y

Tanks
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Tapes
Lufkin Rule Co., Saginaw, Mich

Technologist
Hooper, C. N. Dubuque, Iowa

Thermometers—Oven
Evans Stamping & Plating Co., Taunton, Mass

Tin—Perforated
Harrington & King Perforating Co., Chicago, Ill

Tin and Terne Plate
American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Taylor Co., N. & G., Philadelphia, Pa

Tinners' Tools
Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y

Tinplate
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings
Berger Bros. Co., Philadelphia, Pa

Tools, Etc.
North Bros. Mfg. Co., Philadelphia, Pa

Tools—See Carpenters' Tools

Tools—Linemen's
Smith & Hemenway, New York, N.Y

Tool Sharpeners
Royal Mfg. Co., Lancaster, Pa.

Trowels
Avery Stamping Co., Cleveland, O
Disston, H. & Sons Inc., Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa
Plume & Atwood Mfg. Co., Chicago, Ill

Tubing—Brass and Copper
Hungerford, U. T., Brass & Copper Co., New York, N. Y

Tubing—Heavy Tin
Dieckmann, Ferdinand, Cincinnati, O

Varnish
Buckeye Paint & Varn Co., Toledo, O

Ventilators
Berger Mfg. Co., Canton, Ohio
Burt Mfg. Co., Akron, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y
Schoedinger, F. O., Columbus, O

Wagons
Sycamore Wagon Wks., Sycamore, Ill

Washers
Columbus Bolt Works., Columbus, O

Washing Machines
Brammer, H. F., Mfg. Co., Davenport, Ia
White Lily Mfg. Co., Davenport, Ia & Toledo, O

Wire Goods
Denning Wire & Fence Co., Cedar Rapids,
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in

THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS! Hubert E. Peck, 623 F. St., N. W., Washington, D. C., Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale or Exchange—For a stock of hardware, a nice improved Minnesota farm. Address Box 99, Creighton, Neb. 21-2t

Wanted—To sell on commission a good line of furnaces, oil and cook stoves, and heaters, in Wisconsin or upper Michigan. Address E-65, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19-ufn

TINNERS' TOOLS.

For Sale—6 foot Robinson cornice brake. Address Copelin, 214 Illinois St., Chicago. 21-3t

For Sale—A full set of tinners' tools, consisting of cornice brake, 36 inch gap shear, 36 inch slip rolls, 30 inch square shear and full set tinners' tools and machines. Price one-half the cost of new tools. Address E-69, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 20-3t

For Sale—10 foot eve trough former at a bargain, if sold soon. Address F. B. Karl. Delaware, Ohio. 20-3t

HELP WANTED.

Wanted — A first-class tinner who is good both in shop and outside. Steady work. State wages wanted. Address John F. Cartright, 118 Main St., Bowling Green, Ky. 20-3t

Wanted — Two experienced hardware salesmen for northern Illinois and eastern Wisconsin. Address Trout Hardware Company, Chicago, Ill. 20-ufn

Wanted—A capable and experienced furnace salesman for territory west of Chicago for a large and well known line of furnaces. Give reference and experience. Address E-68, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 20-1t

Wanted—For 1908, a good stove salesman for Missouri to work on salary or commission. Have an established trade. Address E-70, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 20-1t

Wanted—Good tinner, steady work the year around. Must be sober. State wages wanted and experience. Address Martin & Kuebler, Viroqua, Wisconsin. 20-2t

Tinner Wanted—Good pay and steady job. Call or write. H. B. Eger, Libertyville, Illinois. 20-3t

Wanted—Tinner and furnace man. Must be strictly sober. Steady job for the right man. State wages in first letter. Address E-67, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 20-3t

Wanted — One second-hand cornice brake; 1 wiring machine; 1 pair 30-1¾ rolls; 1 Wright folder. Cash paid. Address D. F. Fuerst, Kewanee, Illinois. 20-2t

Wanted—Four or five all around tinners. We do not want any who drink. Address E-62, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19-3t

Wanted—Good all around tinner and furnace man. Steady job the year round for the right man. Mostly indoor work. Placing stoves and furnaces. M. S. & F. Co., 713 Water St., Sandusky, Ohio. 19-3t

Wanted—Two experienced hardware salesmen for northern Illinois and eastern Wisconsin. Address Trout Hardware Company, Chicago, Ill. 19-1t

Wanted—Experienced, hustling young stove salesman for city and suburbs. Good position to the right man. Address E-61, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19-2t

Wanted—First-class tinner by the Zinser Hardware Company, Joliet, Illinois. 17-3t

Wanted—For 1908, salesman experienced in selling both ranges and furnaces to sell All-Steel Peerless "Malleable" Ranges and Kelsey Warm Air Generators in particular and a trade-mark line of stoves and ranges in territory tributary to Chicago and St. Paul. Good positions to men who can qualify. Applications confidential if desired. Address Van Evera & Lewis Mfg. Co., Chicago, Illinois. 14-4t

Wanted—A good mechanic for all around work in a general shop where tinning does not require all of a man's time. One willing to assist at pipe-fitting and do repairing and furnace work if necessary. A steady job and good wages to a good man. State wages and experience in first letter. Also furnish references. Address E. J. Ketchum, 229 Central Ave., West Duluth, Minnesota. 16-ufn

SITUATIONS WANTED.

Wanted—Situation as hardware clerk in the West or Southwest, by a young man of six years' experience, after the first of the year. Have good habits, am a hustler and can furnish the best of references. Address E-72, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-1t

Situation Wanted—A steady permanent position desired by a first-class all around tinner and furnace man, fair at plumbing. Capable of taking full charge of shop, steady and reliable. Am no booze fighter. Please state in your first letter kind of position, shop wages, etc. Address E-71, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-1t

Wanted—Position for 1908, by a first-class plumber, tinner and furnace man. Young man. Speaks German. Active, sober and reliable. Plenty of experience. Best of references. Would like full charge of shop or better still, an interest in the business. Answer at once with full particulars. Address P. O. Box 120, Wayne, Nebraska. 21-3t

Wanted—Situation by tinner. Married and steady. Can do inside and outside sheet metal work and furnace work and can do a good job at plumbing, steam and hot water heating. Good reasons for being out of a job. Can wipe a fair joint. Please state wages in first letter. Address E 74, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-3t

Situation Wanted—Young man 34 years of age, having 14 years' experience with hardware jobbing trade covering eastern territory, desires a change January 1st. Capable of filling following positions: Manager, buyer or traveling salesman. My best reference "never discharged." Address E 75, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-3t

Situation Wanted—To do inside work in sheet metal works or good tinshop. Good worker. Industrious and reliable. Can draft patterns and lay out work from blue print. Address E-66, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 20-3t

Wanted—Position as traveling salesman by a tinner and furnace man with some wholesale hardware or furnace company. Address Lock Box 63, Atlantic, Iowa. 20-3t

A practical hardware man with twelve years' experience will be open for a position January 1, 1908. Illinois or Iowa preferred. Speaks German. Can figure tin work and furnace work from plans and practical in paints and oils. Address E-64, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19-3t

SPECIAL NOTICES.

POSITION WANTED

By a young man, with fifteen years' practical experience, as Sales and Advertising Manager of a Stove Company desiring to increase its trade. Best of reference. Address B-85 care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Illinois. 15-6t

WANTED

Energetic, reliable man as foreman of up to date sheet steel department for range and stove work. Good pay to right party. Write full particulars and references to Fairman, care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 20-4t

WANTED

FIRST-CLASS STOVE SALESMAN for Oklahoma, Indian Territory, Texas and Kansas. THE GLOBE STOVE & RANGE CO., Kokomo, Ind.

FOR SALE

Hardware stock invoicing about $7,000 in a small Illinois town. Doing a good business. Good reasons for wanting to sell. Address, B-93, care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 18-4t.

FOR SALE

If you are looking for a business with established trade, in a prosperous, growing condition, located in best part of the city, supported by a rich country and prosperous farmers, I offer you my stock of hardware including farm implements and buggies. Good reason for selling. For anyone looking for this line of business, address B-92 care of THE AMERICAN ARTISAN, 69 Dearborn St. Chicago. 18-4t

WANTED

A traveling representative in our furnace department. Must be under forty years of age and have practical experience and thoroughly understand hot air heating. References required. Estate of P. D. BECKWITH, Incorporated, Dowagiac, Michigan. 19-4t

WANTED

Competent stove salesman. One thoroughly familiar with high grade Burners and Ranges. Territory north and west of Chicago. In answering, state age, experience and approximate salary. Address B-99, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19-2t

WANTED

For Western Territory, several first-class salesmen with road experience to sell high-class line of furnaces and boilers of a representative manufacturer. Established trade in territory. Excellent opportunity for first-class men. Address, B-94, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 18-ufn.

FOR SALE

Hardware store invoicing about $7,000, in good Northern Michigan town of 5,000. Best reason for selling. Address K-4, care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 20-3t

FOR SALE

A hardware implement and harness store located in the main line of the C. B.& Q. R. R. in a town of about 1,200 people and in the very best farming district in Illinois. Stock will invoice about $9,000 and the buildings, consisting of a double two-story brick building and a blacksmith shop are worth as much as the stock. Last year the business exceeded $30,000. This is an established business, and affords an exceptional opportunity for anyone interested in such a line. Very liberal terms will be given the right party. Address all inquiries to C. F. HURBURGH, Galesburg, Ill. 20-4t

SOLDERENE mends leaky pans, broken handles, Porcelain ware, etc., etc. Solderene and a candle are all you need to make a permanent repair. Don't overlook this splendid opportunity to add another ready seller to your stock. Write us a postal to-day for terms to the trade. **It retails for 10 cents.**

SOLDERENE COMPANY, Dept. M, 53 State St., BOSTON, MASS.

SPECIAL NOTICES.

WANTED

Either an experienced man for the Dakotas and a portion of Minnesota, or a bright young man with retail experience in stores where Base Burners have been sold. In answering state age, experience, salary wanted, also give references. Address B-100, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19-3t

FOR SALE

For cash only, well established and paying Hardware and Harness business in one of the best towns in North Dakota. Population 800. Only one other hardware store in town. $4,000 stock. If you are looking for a good business don't pass this but write to L. E. COOK, Page, N.D.

FOR SALE

Fine clean stock of hardware with tinshop and plumbing shop. Attractive modern store, well arranged with agencies for some of the very best standard lines. Business established 25 years. Located in progressive county seat in Eastern Nebraska. Business for sale for cash only, and sold on account of death in family necessitating a change of residence. Stock invoices about $10,000 and sales run $30,000 yearly. Address, B.-83, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-ufn

FOR SALE

One third or one half interest in a PAYING HARDWARE BUSINESS. Modern city; 20,000 inhabitants; within 250 miles of Chicago. Stock $30,000. Annual sales $90,000. Present owner has made $50,000 out of the business since its establishment but wishes to retire from the active management after six months time. Showing buyer of interest, all the ins and outs of the business. It's a paying business now. None but an experienced active hardware man need apply. If you mean business, address "Business", care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 20-2t

ENAMEL

With nearly 34 years experience in all branches of the enameling business, in foreign countries as well as here, I am in shape to furnish "only" first-class formulas for vitreous Enamels. Dry and wet process for cast iron. Strictly one-coat enamels for Kitchen-ware. Also base-coat with one coat white, blue, blue-green, copper-red, etc. The finest, best and cheapest one coat white, blue-green and copper-red in the world. Address: JOHN PEIL, Columbus, Ohio. 17-ufn

In Every Town

I would like one reputable hardware man or tinner to manufacture for our mutual benefit a patented device made of galvanized sheet steel to supply the trade in his territory. Retails from $1.00 up. Address, R. Merrill, Merrill Bldg., Milwaukee, Wisconsin. 16-8t

BLACK Silk STOVE POLISH is the NAME

The Only Kind
that you dare
Buy in Quantity
Age Actually Improves It
Guaranteed
Not to dry out or rust through can.

MADE AT
STERLING
ILL., U.S.A.
The Home of Black Silk Stove Polish

WANTED

A line of Gasoline Stoves, Refrigerators and Sheet Metal Goods for territory of Montana, Idaho, Utah, Colorado and Wyoming on commission basis. Address, Box 883, Joliet, Ill. 18-4t.

IRON PIPE COUPLINGS

We buy these, all sizes, any quantity. Clean, rusty or leaded. GWILLIAM SUPPLY CO., 1339 Ridge Ave., Philadelphia, Pa. 21-14t

Patent For Sale

A Patented Campaign Novelty

Collapsible tin horn sells for $7.00 per gross, can be made for $3.00 per gross. The patent and complete outfit of machinery for sale or trade. Write us for particulars. GALESBURG CORNICE WORKS, Galesburg, Illinois 20-2t

WANTED—A PARTNER

in plumbing and tinning business, now established at Lawton, Oklahoma. The right party, skilled in business, with good reference, can secure interest in a splendid established business with very little money. Write for full information to JAMES M. POWERS, Lawton, Okla. 16-ufn.

WANTED

Furnace Salesman
Boiler Salesman
for Year 1908

Richardson & Boynton Company
20 Lake St., Chicago, Ill. 20-2t

When Mistah Johnsing jines Miss Liz
He got to do some walkin',
She shows him all de steps dey is,
An' ain' no time fo' balkin',
Jess so in trade—to take de cake
Yo' got to step su'prisin',
Wake up, an' keep yo'self awake!
Why ain't yo' ADVERTISIN'?

Philosophy of Protective Paint

A practical treatise on the subject of protective paint by a practical paint man. Write for free copy No. 18 B.

Joseph Dixon Crucible Co., Jersey City, N. J.

BRAUER

A. G. BRAUER SUPPLY CO.

Gives You a Square Deal Every Time.

Stove Dealers' Supplies, Castings and Stove Repairs

Prompt Shipment **Low Prices**

316-318 NO. THIRD ST., ST. LOUIS, MO.

BRAUER

Trade HADDON Mark

S. V. REEVES

No. 45 N. 2nd St., Philadelphia

Manufacturer

TRADE V MARK

The LEIBRANDT & McDOWELL STOVE CO.'S STOVES and REPAIRS

Cleveland Nickel Works, Cleveland, Ohio

MANUFACTURERS OF

"SUPERIOR" Improved Exhaust Tumbling Mills, Dust Arresters, Hard Iron Stars, Wrought Iron Chaplets, Plain and Tinned, Stove Rods, Furnace Rods, Chair Rods, Stove Scrapers and **all kinds of NICKEL PLATED STOVE TRIMMINGS.** Send for catalogue.

IF YOU WILL

Make a practical demonstration of my

POLISHERS' AND PLATERS' COMPOSITIONS AND SUPPLIES

and

FOUNDRY FACINGS AND SUPPLIES

YOU WILL find their use is in the interests of economy, and that means SAVE MONEY. They are the cheapest in the end because a given quantity will do more work than any other on the market.

I manufacture "Everything for the Foundry."

FREDERIC B. STEVENS. Detroit, Mich.

Cor. Larned and 3rd Streets

THE RIGHT KIND

of Oven Thermometer is

THE "Acme"

THE "Acme"

MADE BY EVANS STAMPING AND PLATING CO. TAUNTON, MASS.

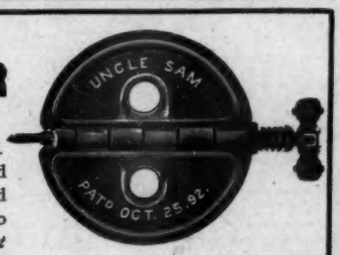
Western Agent, C. H. MATTHEWS, Detroit, Mich.

THE OLD RELIABLE

UNCLE SAM DAMPER

DURABLE, STRONG, LIGHT.

The plate is corrugated to prevent warping. Stamped from best nickeled steel. Sharply pointed steel stem, notched to engage edge of plate. Held in place by spring, and carefully fitted to loop to prevent turning. *Absolutely the best on the market*



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SAYRE STAMPING CO., - - Sayre, Pa.

NORTHWESTERN STOVE REPAIR COMPANY

225 to 235 West 12th Street

CHICAGO, ILL.

LARGEST STOCK OF

STOVE AND FURNACE REPAIRS

IN THE WORLD

Orders filled immediately. Our new No. 25 Catalog will be sent with first order.

STOVE Repairs

Manufacturers' Stove Repair Co.

517-539 Diversey Boul., CHICAGO

Prompt Shipments. Give Us a Trial

WELLER PATTERN Co

DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS

QUINCY, ILL.

PATTERNS

For Stoves and Heaters

The Cleveland Castings Pattern Co.

CLEVELAND, OHIO

The GEO. W. COPE STOVE PATTERN WORKS Cor. Brush & Woodbridge Streets DETROIT, MICHIGAN

PATTERNS

For Stoves and Heaters

First-Class in Wood and Iron

Vedder Pattern Works, Troy, N. Y.

Established 1855

QUINCY PATTERN Co

IRON & WOOD STOVE PATTERNS

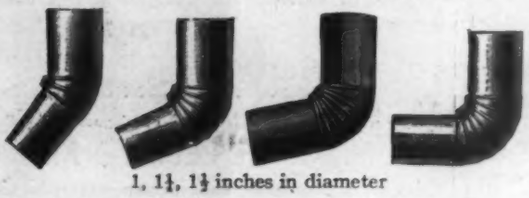
QUINCY, ILL.

TUBING AND TUBING ELBOWS

1, 1¼, 1½ inches in diameter

With Lock Seam and Galvanized After Formation.
Heaviest Tin Speaking Tube on Market.
Elbows made of One Piece of Metal.

Heavy—
—Tin



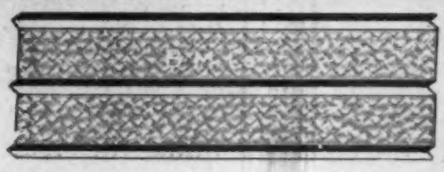
Galvanized After Formation

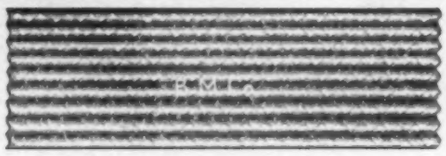
1, 1¼, 1½ inches in diameter

For Ice Box Drains, Portico Work, Speaking Tubes, Lighting Systems, Incubators. Ask for prices, state *quantities desired.*

FERDINAND DIECKMANN

Station B., CINCINNATI, OHIO





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Ceilings and Sidewalls—Embossed; largest line of artistic ceiling materials made.

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Skylights and Ventilators; Tin and Terne Plate; Vault and Sidewalk Lights; Windows, Doors and Shutters.

Get our prices! They will interest you. Write to-day.

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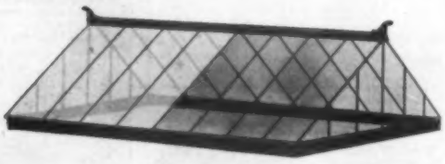

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And You Will Make No Mistake

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.

Galvanized Iron, Brass or Copper Reservoir Equipped with Cylindrical Slotted Burner

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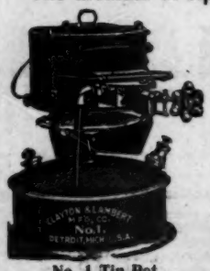

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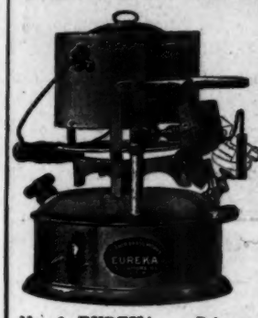

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C. De Witt Wagner, 400 Third Ave., Cedar Rapids, Ia., writes: "Please accept my thanks for your help in securing a tinner for me. I had letters from several states which goes to show that The Artisan is read."

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Tools for Sheet Metals

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Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies, Can-Making Machinery

MADE BY

Niagara Machine & Tool Works,

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SHEET BRASS, All Tempers. BRASS and BRONZE DRILL RODS. BRASS and COPPER WIRE. GERMAN SILVER SHEET and ROD. BRAZED and SEEMLESS TUBING.

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Runs in a self-lubricating bearing that is not affected by heat or cold, and never requires any oil or grease. The Fan revolves without any noise, producing a current of air upward, which positively prevents any down draft. Write for circular.

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We are now prepared to offer to the trade an **ALUMINUM SOLDER,** which we absolutely guarantee to solder Aluminum to Aluminum or Aluminum to other metals in a strong and satisfactory manner.

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It is the only Solder which can be used successfully in the manufacture and repair of aluminum articles.

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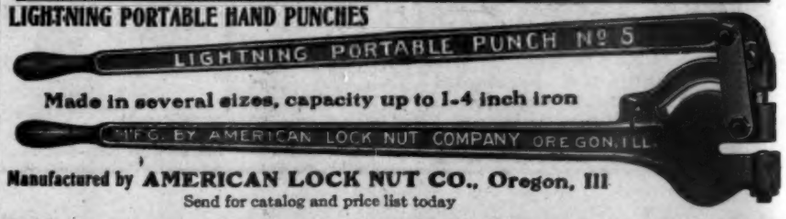

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Made from Galvanized Tin and Painted Tin
Storm, Rust and Fire Proof
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OF EVERY DESCRIPTION AND FOR ALL PURPOSES
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REGISTERED
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EASY TO ERECT.

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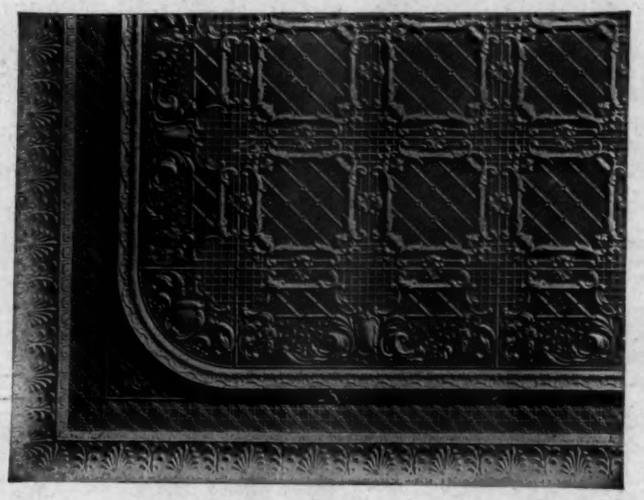

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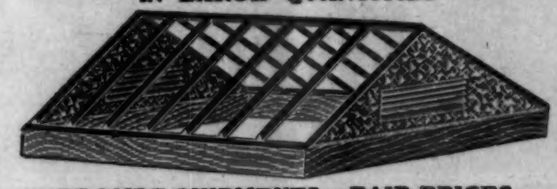

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The roof of this Ventilator is movable vertically, and is held in its highest open position by a lever movement, controlled by a fusible link. In case of fire the link parts, and the top drops down by gravity, closing the opening.

The top is also a damper itself, as by regulating the chain length the opening is partially or wholly closable at any time, and still retaining its automatic closing feature in case of fire. Therefore we offer the

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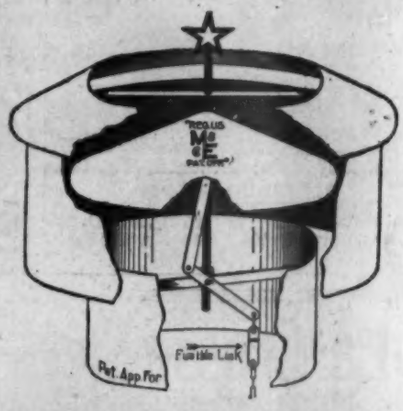
Can be supplied with glass top. Simpler and with fewest parts made. Also lightest in total weight, without sacrifice of proper gauge.



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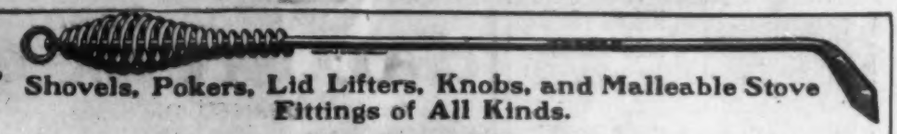

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Manufacturers of
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BUILDERS' HARDWARE, DAMPERS AND DAMPER CLIPS, OIL AND GAS STOVES, FURNACE LAMPS, MOLASSES GATES, LETTER BOXES, HARDWARE SPECIALTIES.

ONE PIECE OF STEEL

forms the head of this mop. It is heavily coated with tin and cannot rust. Its weight is 25% less than cast iron. You cannot break it. It costs but little more than the cast iron patterns.

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Inverted Gas Lamp
Nine-Tenths Saved
of the cost of Electricity and gives as brilliant a light.
They Sell Easily
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Special Prices to the Trade
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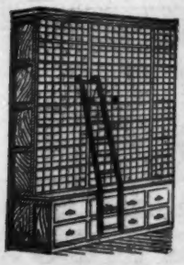

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That will kill all the weeds in your lawns

If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders or roots, the grass will become thick and the weeds will disappear. **The Clipper will do it.** If you wish Clippers, send in your orders.

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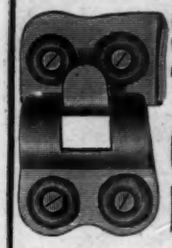

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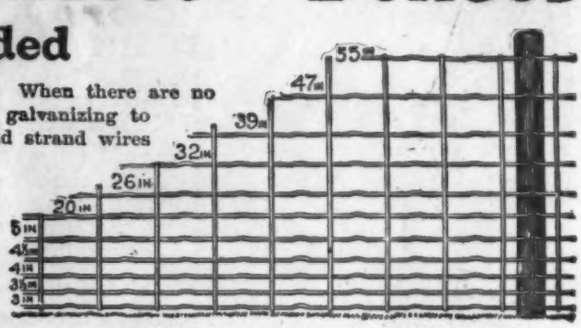
When the joints are electrically welded there are no wraps. When there are no wraps there is no chance for moisture to accumulate, for the galvanizing to crack, for the wire to be rusted. Stays cannot slip; stay and strand wires become one piece when the union is made. These fences



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Ball Bearings insure ease of operation and absence of friction and noise. These hinges are simple and durable in construction and are *made to fit any door*, be it Bank, Church, Vestibule or Pantry.

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Noiseless, No Odor, No Smoke.
More Heat with Less Fuel.
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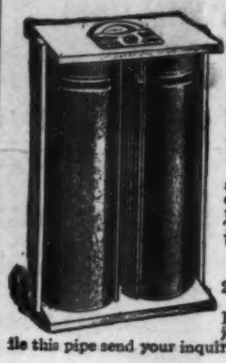

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STOVE PIPE

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

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Chicago, Ill., and Niles, Ohio
Mfrs. Steel Roofing, Corrugated Iron, Etc.

Big Money For Dealers

In Metal Ceilings, Side Walls and Tiling for use in Stores, Factories, Homes and every kind of a building, old or new—if you sell NORTHROP Steel Ceilings and Walls.

Northrop Steel Ceilings and Walls

are not only the *finest made* at any price, but they are also the *best known* line because *the most extensively advertised* line.

Our big Magazine Advertising Campaign reaches *over three million readers* every month—and inquiries are always referred to the nearest Dealer.

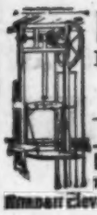
We also help each Dealer *personally and individually*, as no other Manufacturer does.

Write for Catalog and Price List and our Booklet "How We Help the Dealer," which explains in detail, the big profit in selling this line of goods either as a special Department or as a side line, and *how we help* the Dealer sell.

Northrop, Coburn & Dodge Co.
31 Cherry Street, N. Y.

EAGLE BRAND ROOFING

SECURE
PROTECTION AND LONG SERVICE BY USING OUR
ASPHALT ROOFING
SAVES REPAIRS---
SAVES RECOATING
SAVES RENEWING
Send for Samples and Pamphlet
STOWELL MFG. CO.
JERSEY CITY, N. J.



ELEVATORS
Improved Quick and Easy, Rising Steam, Electric and Hand Power.

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KIMBALL BROS. CO.
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Kimball Elevator Co., 139 Vincent St., Cleveland, O.

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without added expense. Many persons, particularly young girls, have been unable to enjoy the pleasure of skating on account of weak ankles. There is a real demand for a light, practical ankle brace at a moderate price.

Flexo Braces meet this demand. They do not interfere with the natural swing of the feet, but give the needed support to the ankles. They make graceful, comfortable skaters.

Flexo TRADE MARK APPLICATION FILED

Made of crucible spring steel, tempered. Will not break or bend out of shape. Easily attached to any skates. Will not work loose. Leather anklet fastened with patent tongueless buckle. Your profit about 50%. Retail at 80c and $1.00, according to finish. Drop us a card today for full particulars and delivered prices.

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Tin, Sheet Iron and Copper Plate Worker

A practical Workshop Companion, containing rules for describing various kinds of Patterns used by Tin, Sheet Iron and Copper Plate Workers; Practical Geometry, Mensuration of Surfaces and Solids; Tables of the Weights of Metals, Lead Pipe; Tables of Areas and Circumferences of Circles; Japans, Varnishes, Lacquers, Cements, Compositions, etc., etc. By Leroy J. Blinn. With over 100 illustrations. $2.50.

For Sale by

DANIEL STERN,
69 Dearborn Street
CHICAGO.

Blick No. 3 The Best Box
For Rural Free Delivery

Be Just With Customers

Sell them Blick No. 3 boxes. They are big ones, 6½ x 8½ x 19 inches. Made of heavy galvanized steel. Painted green, the new government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Watertight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

Blick-Williams Co.
Indianapolis, Ind.

"Yankee" Tools
are the Newest, Cleverest and Quickest Selling

and Are Without Equal in Quality or Efficiency in Practical Use

No. 10 and 11—Ratchet, Right and Left Hand and Rigid

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No. 40-41-44—Automatic Drill

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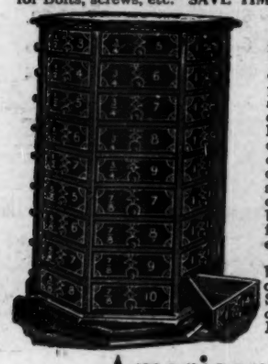
Send for "Yankee" Tool Book

North Bros. Mfg. Co., Philadelphia

Revolving Cases
for Bolts, screws, etc. SAVE TIME and MONEY

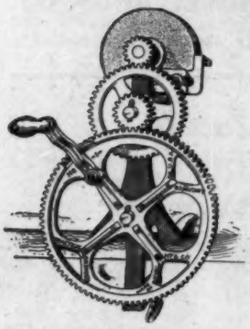


A necessity for Hardware Dealers, machine shops pattern shops, and in fact any one who handles small articles. Last indefinitely. Made octagonal or square as desired; also with blank drawer fronts with label holders.

Descriptive booklet sent on application. Sold by all first class Hardware Dealers.

American Bolt & Screw Case Co.
DAYTON, OHIO

"WAY AHEAD"



Of the grindstone or any other apparatus for sharpening table or kitchen cutlery or edge tools of every kind are our

Hand and Foot Power

Grinders & Tool Sharpeners

Four sizes. Needed in every home—every day in the year. Every grinder guaranteed. Be sure; Get our catalogue with Discounts to the trade—to-day.

ROYAL MANUFACTURING CO.
108 E. Walnut Street, Lancaster, Pa., U. S. A
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Chicago, 113-115 Michigan St., E. G. Curtis & Son, Managers

1,000 Years

ago leisure moments were passed in the company of "wise fools" and Merry-Andrews. Now people read. By some people, leisure moments are moments of amusement. Other people find recreation in a small amount of study. The latter are the kind that have two horses for a one-horse buggy.

100 Tinners' Patterns

will help to buy the extra horse. Sent postpaid on receipt of $1.00. Our descriptive circular tells why it's up to you.

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69 Dearborn Street
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The LENOX HOTEL IN BUFFALO

Modern. Highest Grade. Fireproof.

OUR OWN RAPID ELECTRIC CARRIAGES, EXCLUSIVELY FOR PATRONS, operate continuously every few minutes from Hotel through Business District and to all Depots for principal trains.

EUROPEAN PLAN.

Rates $1.50 per day and upward.

GEORGE DUCHSCHERER, Proprietor.

8-foot Shear

Write for Catalog "F."

We build a complete line of Shears, Punches and Forming Rolls, for either hand or belt power.
BERTSCH & CO., Cambridge City, Ind.

This is *the* Chopper

35 Sizes and Styles for Hand, Steam and Electric Power

The Revolving Steel Blades and Perforated Steel Cutting Plate *cut* the meat clean and clear—don't tear or grind.

No—there's nothing like it on the market.

It is in a distinct class
The "Enterprise" Class.

To increase your trade in "Enterprise" Meat and Food Choppers, write for copies of "An Enterprise Peace Offering," a booklet for free distribution. Send for Illustrated Catalogue.

THE ENTERPRISE MFG. CO. OF PA.
Philadelphia, U. S. A.

NEW YORK, 21 Murray Street **SAN FRANCISCO, 438 Market Street**

E.C. SIMMONS KEEN KUTTER ST. LOUIS U.S.A.

"MONEY TALKS"

Dollars for Dealers

When you purchase a bill of goods, do you look for quick profits and returns?—good profit? Or do you intend to keep the goods on your shelf, expecting someone—some time—to come in and ask for them?

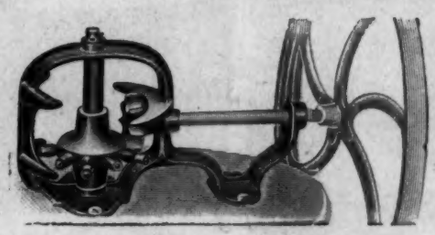
Our **KEEN KUTTER Advertising Service** will not put the goods on the shelf, but it will help take them off—at a satisfactory profit.

NOV 25 1907

SIMPLICITY vs. COMPLICATION

EVERY good dealer knows that the fewer the parts of a mechanism, the less the friction. This is equally true when applied on washing machine gearings, hence permit us to remind you once more of the

Wonderful Simplicity of Construction



Embodied in the Gearing of our

Unsurpassed **"O. K."** Rotary

All unnecessary parts have been eliminated, giving us a reciprocating mechanism unequalled for

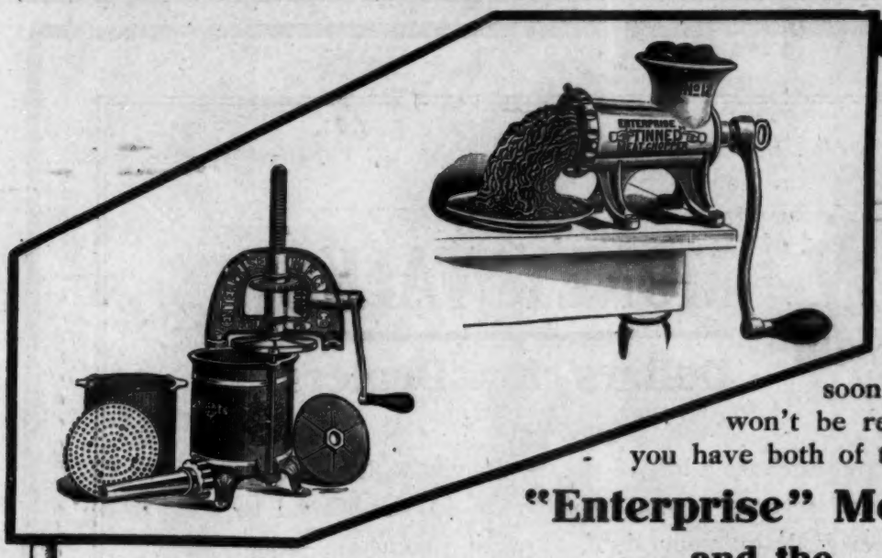
SIMPLICITY, STRENGTH, DURABILITY and EASE of Operation.

THE TUB. We pride ourselves upon the fact that it's the best made.

THE FINISH. It can't be beat, it's handsome and lasting too.

Write for Particulars—DO IT TO-DAY.

H. F. BRAMMER MFG. CO., Davenport, Iowa



Hurry Up!

Sausage time will soon be here and you won't be ready for it unless you have both of these—the

"Enterprise" Meat Chopper and the "Enterprise" Sausage Stuffer and Lard Press

One chops the meat and the other stuffs the sausages as "easy as can be," in the shortest time with the least effort, and the sausages are as "good as can be."

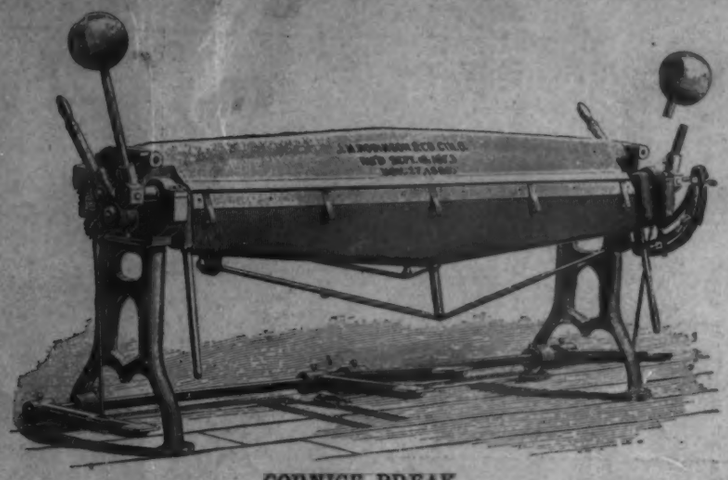
The *"Enterprise" Sausage Stuffer* has the cylinder bored absolutely true, and has a Patent Corrugated Spout that allows air to escape from the casing as the sausage is stuffed, thus assuring the preservation of the sausage. Take time by the forelock and jog your jobber *now.*

The Enterprise Manufacturing Co. of Pa.

Philadelphia, U. S. A.

21 Murray Street, New York — 438 Market Street, San Francisco

4 Ft. BRAKE
Capacity 12 Gauge.



CORNICE BREAK
Capacity, 20 Gauge and Lighter.

THE J. M. ROBINSON MFG. CO.

Manufacturers of Sheet Metal Working Machinery

3282 to 3288 Spring Grove Avenue CINCINNATI, OHIO

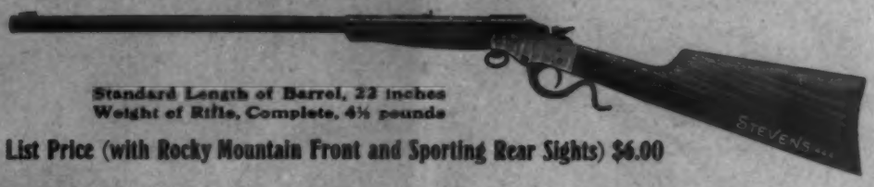
IT WILL PAY YOU to enter into Competition for the

$100.00 IN GOLD

for the Annual Prize WINDOW Competition of The American Artisan.

STEVENS

FAVORITE RIFLE No. 17



Standard Length of Barrel, 22 inches
Weight of Rifle, Complete, 4½ pounds

List Price (with Rocky Mountain Front and Sporting Rear Sights) $6.00

STEVENS FIRE-ARMS are the logical line for the merchant to handle. Our goods are **Guaranteed** for **Quality**, and being long and favorably known as embodying the essential properties of high-grade arms, are preferred to all other makes. The manifold features of the **"STEVENS"** are advertised in a broadcast way in National Publications and the Agricultural Press. **We consistently co-operate with the dealer who handles our products, as our interests are identical.**

All Jobbers handle our goods; insist on getting the "STEVENS"

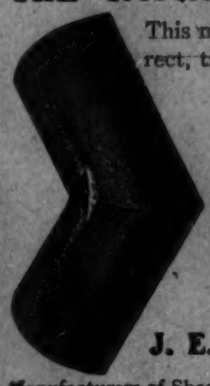
Illustrated Catalog mailed FREE anywhere upon request; it contains detailed descriptions of our entire line and should be in the hands of every retailer.

J. Stevens Arms & Tool Co.

No. 460 MAIN STREET

CHICOPEE FALLS, MASS., U. S. A.

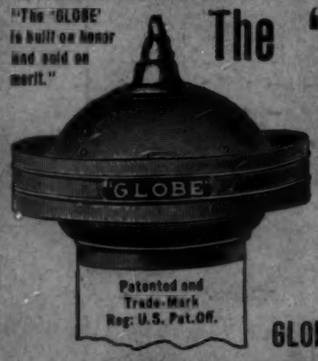
THE IMPROVED ONE-PIECE MITER



This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

J. E. WHITACRE MFG. CO.
ROCKFORD, ILL.
Manufacturers of Sheet Metal Specialties.

"The 'GLOBE' is built on honor and sold on merit."



The 'GLOBE" Ventilator

in COPPER, GALVANIZED IRON and with Glass Tops for Skylight purposes.

ABSOLUTELY STORM PROOF

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factory and Audience Rooms of Every Character

SMOKY CHIMNEYS CURED
"GLOBE VENTILATED RIDGING"
Send for Pamphlet.
— MANUFACTURED BY
GLOBE VENTILATOR CO., Troy, N. Y.

STAY-IN Flue Stoppers

are **guaranteed** to be absolutely soot proof. Cannot be jarred or blown from flue hole.

Finished In Brass and Nicely Decorated

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STUBER & KUCK, Peoria, Ill.
We Also Manufacture PIECED TINWARE and All Styles of FLOUR SIFTERS

THE COATING AS REGARDS BOTH ITS QUALITY AND WEIGHT
IS
an important factor in the production of
HIGH GRADE ROOFING PLATES
but
as compared to it in importance the base or body is MORE than
HALF THE BATTLE

SCOTT'S EXTRA COATED

ROOFING TIN
is made exclusively with a
HAMMERED OPEN HEARTH BASE
and the Best and Richest Coating
FOLLANSBEE BROS. CO.
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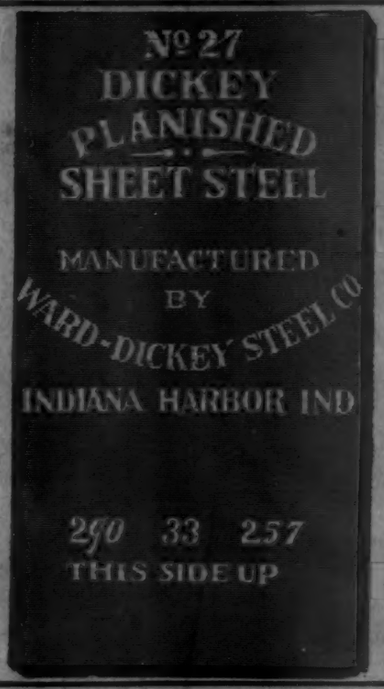

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Soft
Tough

HOLDS COLOR UNDER LONG AND HIGH HEATS :: ::

No Breakages

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Vitreous Enameling

Designs and builds new plants. Improves quality and reduces cost in those already established.

C. N. HOOPER, Dubuque, Ia.

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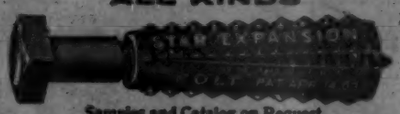
ALL KINDS

WE MAKE EXPANSION PARTS TO FIT THE BOLTS AND SCREWS YOU HAVE IN STOCK



ANYTHING TO FIT FROM THE SMALLEST WOOD SCREW TO THE LARGEST LAG OR MACHINE

Samples and Catalog on Request
STAR EXPANSION BOLT CO.
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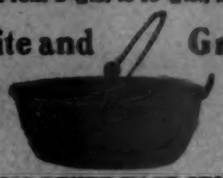
PRESERVING SEASON IS HERE

WE MAKE PRESERVING KETTLES
From 2 Qts. to 18 Qts., in

Blue and White and Gray Mottled Enameled Ware



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Fireproof Metal Windows
(Glazed with Wire Glass)
Metal Ceilings and Side Walls
Eastlake Metal Shingles
Gutters and Conductors, Roofings of All Kinds.
Send for Catalogue and Prices.
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THE "CENTENNIAL"

RAIN-WATER CUT-OFF

The strongest, most durable and cheapest CUT-OFF on the market.

The only single cut off made to fit Corrugated and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

Patent applied for.

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